GROUNDWATER MONITORING REPORT
SECOND QUARTER 2005

More for Less Store #21
940 Petrified Forest Road
Calistoga, California

Submitted to:

Napa County Department of Environmental Management
Napa, California

On behalf of:

Convenience Acquisition Company LLC
Sacramento, California

Prepared by:

ENVIRON International Corporation
Emeryville, California

July 15, 2005
Project No. 03-10605M

ENVIRON

July 15, 2005

Mr. Bob Matthews
Convenience Acquisition Company LLC
3336 Bradshaw Road, Suite 260
Sacramento, California 95827

Re: Groundwater Monitoring Report, Second Quarter 2005
More For Less Store #21; Calistoga, California
ENVIRON Project No. 03-10605M

Dear Mr. Matthews:

ENVIRON International Corporation ("ENVIRON") is pleased to present this report summarizing the results of groundwater monitoring conducted at Convenience Acquisition Company's More for Less Store #21 located at 940 Petrified Forest Road in Calistoga, California (Figure 1). The report has been prepared in response to a request from the Napa County Department of Environmental Management (DEM) as specified in a letter dated January 20, 2005 addressed to both More for Less and The Customer Company, the previous owner of the site.

The approximately one-acre site consists of a convenience store building, three fuel islands, and associated underground storage tanks, as shown on Figure 2. Convenience Acquisition Company, the current site owner, has operated the More for Less Gas Station and Convenience Store at the site since July 1998. There are five active underground storage tanks (USTs) located in the central portion of the site, including three 12,000-gallon gasoline USTs, one 8,000-gallon diesel UST, and one 520-gallon waste oil UST. Two former USTs for storage of fuels and an associated fuel island were located in the northern corner of the site and removed in 1988 by the previous owner.

This report presents a summary of the site history, subsurface conditions, and groundwater monitoring results for May 2005. A summary of monitoring well construction details is presented in Table 1. The locations of groundwater monitoring wells discussed in this report are shown on Figure 3. Laboratory analytical results for groundwater samples collected during the quarterly monitoring event in February 2005 are in Appendices B and C.

As required by California Underground Storage Tank regulations (CCR Title 23, Section 2729), a site plan and data collected since September 1, 2001, including analytical data, monitoring well survey data, and groundwater level data, have been submitted in Electronic Deliverable Format (EDF) to the California State Water Resources Control Board (SWRQB) Geotracker database.

Background

Prior to purchase by Convenience Acquisition Company, the site was operated as Food and Liquor #168 by The Customer Company. Two former 12,000-gallon USTs located in the northern corner of the site were removed in February 1988 (Kleinfelder 1988). Based on the detection of fuel hydrocarbons in a water sample collected during the tank removal, the Napa County DEM requested that additional site investigation be conducted. In December 1989, three groundwater monitoring wells (MW-1, MW-2 and MW-3) were installed in the vicinity of the former tanks (Dames & Moore 1990). The three wells were sampled in December 1989, and downgradient well MW-3 was sampled again in January 1991. The groundwater samples were tested for total petroleum hydrocarbons (TPH) as gasoline and benzene, toluene, ethylbenzene, and xylenes (BTEX). None of these compounds were detected. Based on these results, the Napa County DEM recommended that the case be closed, and the San Francisco Regional Water Quality Control Board issued a case closure letter dated March 5, 1991.

In July 1998, Convenience Acquisition Company purchased the site from The Customer Company, and the store was renamed More for Less #21. The fuel dispensers and underground fuel delivery lines to the four existing USTs at the site were upgraded during February 2000. During the upgrade activities, Geocon Consultants Inc. (Geocon) of Rancho Cordova, California collected soil samples from the delivery line trench and dispenser island excavations in accordance with a request from the Napa County DEM. TPH-diesel was detected in all ten soil samples collected and the gasoline oxygenate methyl-tert-butyl ether (MTBE) was detected in nine of the ten soil samples collected. TPH-gasoline and BTEX compounds were detected in two or three of the shallow soil samples (Geocon Consultants, Inc. 2000).

Following submittal of Geocon's report dated March 27, 2000, the Napa County DEM issued a letter to Convenience Acquisition Company dated March 29, 2000 requesting that a soil and groundwater investigation be conducted to address the possible release of MTBE at the site. A workplan for a soil and groundwater investigation was prepared by Parker Environmental Services of Pittsburg, California on June 21, 2000 and submitted to the Napa County DEM. Following approval of the workplan by the Napa County DEM in a letter dated October 10, 2000, the plan was implemented in November 2001 by H_2O Geol of Livermore, California.

The investigation at the site in November 2001 included the installation and development of three new shallow monitoring wells (MW-4, MW-5, and MW-6) and collection of two soil samples from each well boring for chemical analysis. Groundwater levels were measured in all six onsite monitoring wells, and groundwater samples were collected for chemical analysis.

Soil and groundwater samples were analyzed for TPH as gasoline and diesel, BTEX compounds, MTBE, and other fuel oxygenates. Additional quarterly groundwater monitoring events for all six wells were conducted in March 2002 by H_2O Geol and on a quarterly basis since August 2002 by ENVIRON. Results of these previous investigations were summarized in the *Site Investigation and Groundwater Monitoring Report* (ENVIRON 2002a) and subsequent groundwater monitoring reports (ENVIRON 2002 through 2005).

Site Subsurface Conditions

In general, the site is underlain by fill over natural alluvial soils. Where present, the fill material is described as pea gravel or engineered fill containing concrete, brick, and wire fragments to a depth ranging from approximately 9 to 10.5 feet below ground surface (bgs). Fill was not reported along the northern side of the site at locations MW-1 and MW-3, where the first soil encountered consisted of silty clay to depths of 6-7 feet bgs. The fill material is underlain by relatively fine-grained deposits consisting of clayey to gravelly silt and silty to gravelly clay extending to depths ranging from approximately 13 to 18 feet bgs. These deposits are underlain by relatively coarse-grained alluvial deposits consisting of sand and gravel. Groundwater elevations fluctuate seasonally. The direction of groundwater flow is toward the southeast, and the depth to water typically ranges between about 7 to 21 feet below ground surface.

Well Survey Results

All six monitoring wells at the site were surveyed on February 21, 2002 by Renner Surveying and Engineering of Burlingame, California. This survey was conducted relative to a benchmark established at the site with an assumed elevation of 390.00 feet. Wells MW-1, MW-2 and MW-3 were also surveyed following their installation in 1989 by Earl L. Gray of Pleasant Hill, California using a Napa County benchmark identified as BM No. 325 referenced to Mean Sea Level (MSL) datum. The difference between the two surveys is shown below:

Well	Feet, MSL Datum	Feet, 2002 Site Datum	Difference in feet
MW-1	391.90	388.59	3.31
MW-2	392.28	388.99	3.29
MW-3	391.71	388.46	3.25

The average difference between the site datum elevations measured in 2002 and the MSL datum elevations measured in 1989 for these three wells is 3.28 feet. These data indicate that a correction factor of +3.3 feet could be used to convert the elevations based on the site benchmark to approximate MSL datum elevations, if necessary. However, the 2002 elevations measured relative to the site benchmark are consistent relative to one another and can be used to assess groundwater flow directions and gradient at the site.

During the sampling event on May 15, 2003, it was observed that a concrete sidewalk had been added surrounding the MW-3 well box, the top of which is flush with the new sidewalk. Upon inspection of the well by ENVIRON, the casing appeared to have been newly cut, presumably so that the well box lid could be placed flush with the sidewalk. Renner Surveying and Engineering of Burlingame, California surveyed the elevation of MW-3 on October 17, 2003. This survey was conducted relative to a benchmark established at the site with an assumed elevation of 390.00 feet. The new elevation for MW-3 was measured at 388.29 feet, site datum.

Groundwater Occurrence

Static groundwater levels were measured on May 26, 2005 using an electronic water level probe. The groundwater level measurements are presented along with historic data in Table 2. In general, measured water levels were found to be between depths of 7.55 and 9.19 feet. Water levels were approximately 0.4 feet lower in May 2005 than those recorded in February 2005. The groundwater levels measured in May 2005 are shown on a groundwater table contour map on Figure 4. Consistent with previous quarters, the measured water levels indicate an overall groundwater flow direction toward the east/southeast. Cyrus Creek, which is located about 50 feet south of the site, is dry for much of the year, indicating that groundwater is deeper than the creek bed, and that the creek acts as a discharging stream when it flows during the rainy season. As a result, the potential for groundwater discharge into the creek is very low.

Chemical Testing Results

To characterize current groundwater conditions at the site, ENVIRON collected groundwater samples as part of a quarterly monitoring event conducted in May 2005. Groundwater samples were collected from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6. The groundwater samples were analyzed for TPH as gasoline and diesel, BTEX compounds, and fuel oxygenates. The results of groundwater analyses are summarized in Table 3, and concentrations of MTBE in groundwater are shown on Figure 5. The field parameter sheets are presented in Appendix A, and the analytical laboratory reports are attached in Appendix B. No fuel constituents were detected in any of the groundwater samples collected in May 2005.

As part of the quality control program, an equipment rinsate blank sample was collected and analyzed to evaluate potential bias introduced to the sample during decontamination procedures, sample collection, and analysis. The equipment blank sample was analyzed for the same constituents as the groundwater samples. None of the constituents were detected in the equipment blank sample.

Comparison with Historical Results

Groundwater analytical results have been compared to available federal and California criteria for the chemicals detected. Available water quality criteria include health based Maximum Contaminant Levels (MCLs) for drinking water, and Secondary MCLs based on aesthetic

factors such as color, taste, and odor. Although groundwater at the site is not used for drinking water, drinking water criteria are identified as water quality objectives for groundwater by the California Regional Water Quality Control Board.

Groundwater monitoring results since November 2001 are shown in Table 3, and MTBE results are presented on Figure 5. The historical data indicate that MTBE concentrations at the site were highly variable during the period from November 2001 through November 2002. The highest concentrations were detected in the two November rounds of sampling (up to 26,400 μg/l), and the lowest concentrations were detected in March 2002 ($<$0.50 to 2.7 μg/l).

As of January 9, 2003, the gasoline delivered to facility contains ethanol rather than MTBE. Since then, MTBE has not been detected in wells MW-1, MW-2, and MW-3 located in the northern portion of the site. Wells MW-4, MW-5, and MW-6 are located in the southern portion of the site. In wells MW-4 and MW-5, MTBE results have been either not detected or below MCLs except in the November 2003 round of sampling. The same pattern is observed in well MW-6, with one exception (in May 2004, MTBE was detected at 15.9 μg/l). In November 2003, MTBE was detected above MCLs in wells MW-4, MW-5, and MW-6, but the concentrations were one to two orders of magnitude lower than in November 2001 and November 2002. Other fuel constituents, including TPH-gasoline, benzene, TBA, and TAME, were also detected in one or more wells during November 2003. By November 2004, MTBE and other fuel constituent detections were below MCLs. Ethanol has never been detected in any of the site wells.

The pattern of higher MTBE and other fuel constituent detections in the November rounds of sampling from 2001 to 2003 appears to be related to rising water levels after the start of the rainy season. During the dry season, the groundwater table is about 20 feet deep and occurs in an alluvial sand and gravel layer. This coarse-grained soil unit is overlain by fine-grained silt and clay. Following rain events in the fall, the water table rises high enough to contact the base of the fine-grained soil unit at a depth of about 14 to 15 feet bgs in the southern portion of the site. The detections of MTBE and other fuel constituents in the previous November rounds of sampling suggest that there may be residual fuel constituents in soil pore space at the base of the fine-grained layer. Based on the fourteen rounds of sampling since November 2001, the residual MTBE concentrations appear to be decreasing over time and were below MCLs in November 2004. In the subsequent February 2005 and May 2005 rounds of sampling, MTBE was not detected at the site.

Offsite Irrigation Well

At the request of the Napa County DEM, a groundwater sample was collected from the offsite irrigation well located on the Rancho de Calistoga property across Highway 128 southeast of the site. The approximate well location is shown on Figure 3. According to Mr. Jerry Sturr, the former manager of the property, the well is approximately 276 feet deep and is used solely for landscape irrigation.

A groundwater sample was collected from a tap on the well outlet line on May 26, 2005. The sample was analyzed for TPH as gasoline and diesel, BTEX compounds, and fuel oxygenates. None of the analyzed constituents were detected in the sample. The analytical laboratory report is presented in Appendix C.

The offsite irrigation well was sampled previously in conjunction with eight monitoring events (August 2002 and each quarterly monitoring event since August 2003) and tested for the same fuel constituents. Fuel constituents were not detected in samples collected in August 2002 and August 2003. In November 2003, MTBE was detected at a concentration of 6 μg/l; no other compounds were detected. The primary MCL for MTBE is 13 μg/l, and the secondary MCL (based on taste and odor factors) is 5 μg/l. To confirm this result, the well was resampled in December 2003. MTBE was detected, but only at 1.1 μg/l, well below both the primary and secondary MCLs.

Fuel constituents were not detected in samples collected in February and May 2004. In August 2004, TPH-gasoline was reported at a concentration of 74 μg/l, and total xylenes were reported at 1.3 μg/l. In order to confirm the August 2004 results, the well was sampled again on September 19, 2004 and analyzed for TPH-gasoline and BTEX. An atmospheric blank sample was also collected and analyzed for the same parameters. TPH-gasoline and BTEX were not detected in the sample from the well or in the atmospheric blank sample. Therefore, the reported detections in the August sample are considered suspect. Fuel constituents have not been detected in any of the subsequent samples collected in November 2004, February 2005, and May 2005.

Summary

Based on data from fourteen groundwater monitoring events, concentrations of MTBE in groundwater were highly variable during the period between November 2001 and November 2002. Relatively high concentrations were reported in both November 2001 and November 2002. However, in March 2002 (highest groundwater elevation) and August 2002 (lowest groundwater elevation), MTBE was not detected or was reported at relatively low concentrations. The absence of TPH-gasoline, BTEX, and other fuel oxygenates at more than sporadic and/or low levels did not indicate a liquid fuel release at the site. However, the source(s) of the MTBE in groundwater is not clear. In accordance with its permit, the facility fuel system integrity was tested in 2002, 2003, 2004, and 2005, and all fuel system components passed. The most recent testing included pressure decay testing of the gasoline USTs, air to liquid ratio performance of the dispenser nozzles, and testing of the product lines conducted by Tank-Tek on May 5, 2005, with a follow up test on July 11, 2005 after a faulty sensor was replaced.

Any potential onsite sources of MTBE were eliminated in January 2003. Since that time, the gasoline delivered to the facility has been formulated with ethanol rather than MTBE. In the first three monitoring events of 2003 (February 2003, May 2003, and August 2003), MTBE was not detected or was reported at low concentrations below MCLs. In November 2003,

MTBE was detected in the three site wells near the current USTs but at concentrations an order of magnitude lower than in November 2001 and November 2002. MTBE was not detected in the three wells near the former USTs. In the monitoring events of 2004 (including the November sampling), MTBE was again not detected or reported at low concentrations below MCLs, with only one exception (one May 2004 result was slightly above the primary MCL). In February 2005 and May 2005, MTBE was not detected in any of the site wells. Ethanol has never been detected in any of the site wells.

The pattern of higher MTBE and other minor fuel constituent detections in the previous November rounds of sampling appears to have been related to rising water levels after the start of the rainy season. During the dry season, the groundwater table is about 20 feet deep and occurs in an alluvial sand and gravel layer. Following rain events in the fall, the water table rises high enough to contact the base of a fine-grained soil unit at a depth of about 14 to 15 feet bgs in the southern portion of the site. The detections of MTBE and other fuel constituents in the November rounds of sampling suggest that there may have been residual fuel constituents in soil pore space at the base of the fine-grained layer. Based on the fourteen rounds of sampling since November 2001, the residual MTBE concentrations appear to be decreasing over time. By November 2004, MTBE and other fuel constituent detections were below MCLs, and current groundwater concentrations are below the detection limit.

As discussed above, based on sampling conducted in August 2002 and August 2003, an offsite irrigation well located approximately 160 feet downgradient of the site was not impacted by fuel constituents. Data from two samples collected in November and December 2003 indicated very low concentrations of MTBE below MCLs. However, MTBE and other fuel constituents were not detected in more recent samples from February, May, and November 2004, or February and May 2005. Low concentrations of TPH-gasoline and xylenes were reported for a sample collected in August 2004 (MTBE and other fuel constituents were not detected). These positive detections were not confirmed by a second sample collected in September 2004 and are therefore considered to be suspect.

In accordance with a Napa County DEM letter dated January 20, 2005, we recommend that an additional round of quarterly monitoring be conducted during Third Quarter (August) 2005 to further evaluate site conditions following the removal of MTBE-containing gasoline from the facility. Because the gasoline delivered to the facility now contains ethanol rather than MTBE, a reporting limit of 50 μg/l will be requested from the analytical laboratory. The offsite irrigation well located at the Rancho de Calistoga property will also be sampled again in August 2005. In addition, additional groundwater sampling and analysis will be performed in November 2005 in accordance with the work plan prepared by ENVIRON and submitted to the Napa County DEM on March 11, 2005 (ENVIRON 2005b), as approved by the agency in a letter dated March 15, 2005.

Please contact us at (510) 655-7400 if you have any questions about this report.

Very truly yours,

John Pekala, P.G. No. 7248
Manager

Jessica E. Donovan, P.G. No. 3791
Principal

cc: Mr. John Johnson, The Customer Company
Mr. Gary Lowe, H2O Geol

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TABLE 1. SUMMARY OF MONITORING WELL CONSTRUCTION DATA
Convenience Acquisition Company, More For Less Store #21
940 Petrified Forest Road; Calistoga, California

Well Number	Date Installed	Measuring Point Elevation (ft msl)	Depth of Well Elevation (ft sd)	Depth of Well (ft bgs)	Screened Elevation (ft sd)	Screened Interval (ft bgs)	Well Casing			Filter Pack Elevation (ft sd)	Filter Pack Interval (ft bgs)
							Diameter (inches)	Casing Material	Screen Slot Size		
MW-1	12/18/1989	388.59	368.6	20.0	383.6 to 368.6	5 to 20	4	Sch. 40 PVC	0.02"	385.6 to 368.6	3 to 20.0
MW-2	12/18/1989	388.99	364.0	25.0	379.0 to 364.0	10 to 25	4	Sch. 40 PVC	0.02"	381.0 to 364.0	8 to 25.0
MW-3	12/18/1989	388.29	368.5	20.0	383.5 to 368.5	5 to 20	4	Sch. 40 PVC	0.02"	385.5 to 368.5	3 to 20.0
MW-4	11/13/2001	388.54	364.1	24.4	374.5 to 364.5	14 to 24	2	Sch. 40 PVC	0.02"	375.5 to 364.1	13 to 24.4
MW-5	11/13/2001	388.10	364.1	24.0	374.1 to 364.1	14 to 24	2	Sch. 40 PVC	0.02"	375.1 to 364.1	13 to 24.0
MW-6	11/13/2001	387.96	363.7	24.3	374.0 to 364.0	14 to 24	2	Sch. 40 PVC	0.02"	375.0 to 363.7	13 to 24.3

NOTES:

ft bgs = feet below ground surface

ft sd = feet, 2002 site datum (see Table 2 for explanation)

PVC = polyvinyl chloride

Site Datum: Well elevations are based on surveys by Renner Surveying & Engineering conducted in February 2002 and November 2003. These surveys were conducted relative to a temporary benchmark point at the site with an assumed elevation of 390.00 feet. Based on a 1989 survey of wells MW-1 through MW-3 by Earl L. Gray of Pleasant Hill, California using Napa County benchmark No. 325, a correction factor of +3.3 feet should be used to convert the elevations based on the 2002 site benchmark to elevation based on Mean Sea Level datum.

TABLE 2. SUMMARY OF GROUNDWATER ELEVATIONS
Convenience Acquisition Company, More for Less Store #21
940 Petrified Forest Road; Calistoga, California

Well ID	MW-1		MW-2		MW-3		MW-4		MW-5		MW-6	
TOC	388.59		388.99		388.29 [(a)]		388.54		388.10		387.96	
Date	Depth (ft)	Elevation (ft sd)	Depth (ft)	Elevation (ft sd)	Depth (ft)	Elevation (ft sd)	Depth (ft)	Elevation (ft sd)	Depth (ft)	Elevation (ft sd)	Depth (ft)	Elevation (ft sd)
12/29/1999	13.33	375.26	13.54	375.45	13.38	375.08	--	--	--	--	--	--
11/19/2001	11.80	376.79	11.90	377.09	11.95	376.51	11.77	376.77	11.16	376.94	10.90	377.06
3/28/2002	9.35	379.24	8.75	380.24	9.25	379.21	8.75	379.79	8.15	379.95	7.80	380.16
8/15/2002	Dry	--	20.94	368.05	Dry	--	20.55	367.99	20.12	367.98	19.94	368.02
11/12/2002	11.78	376.81	11.79	377.20	11.92	376.54	11.68	376.86	11.11	376.99	10.79	377.17
2/24/2003	9.06	379.53	8.11	380.88	8.81	379.65	8.25	380.29	7.63	380.47	7.18	380.78
5/15/2003	9.13	379.46	8.38	380.61	8.88	379.41	8.54	380.00	7.93	380.17	7.44	380.52
8/20/2003	Dry	--	20.67	368.32	Dry	--	20.27	368.27	19.84	368.26	19.65	368.31
11/21/2003	15.56	373.03	15.82	373.17	15.46	372.83	15.60	372.94	15.05	373.05	14.85	373.11
2/24/2004	8.63	379.96	7.75	381.24	8.32	379.97	8.09	380.45	7.48	380.62	6.91	381.05
5/27/2004	13.65	374.94	13.89	375.10	13.67	374.62	13.74	374.80	13.23	374.87	12.92	375.04
8/24/2004	Dry	--	21.15	367.84	Dry	--	20.8	367.74	20.38	367.72	20.17	367.79
11/19/2004	14.96	373.63	15.18	373.81	14.88	373.41	14.97	373.57	14.50	373.60	14.20	373.76
2/25/2005	8.84	379.75	8.05	380.94	8.55	379.74	8.29	380.25	7.70	380.40	7.12	380.84
5/26/2005	9.19	379.40	8.48	380.51	9.04	379.25	8.72	379.82	8.08	380.02	7.55	380.41
Change*		-0.35		-0.43		-0.49		-0.43		-0.38		-0.43

NOTES:

TOC indicates top of casing elevation in feet, 2002 site datum.

Depth to groundwater is in feet below top of casing.

Groundwater elevation is in feet above 2002 site datum (ft sd).

* Difference between two most recent elevations.

(a) The well casing for MW-3 was cut between the February and May 2003 sampling events. Prior to this, groundwater elevations were calculated using the prior surveyed TOC elevation of 388.46 feet, 2002 site datum. Beginning in May 2003, the new surveyed elevation of 388.29 feet, 2002 site datum was used.

Site Datum: See Table 1 for explanation.

TABLE 3. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - Fuel Constituents
Convenience Acquisition Company, More For Less Store #21
940 Petrified Forest Road; Calistoga, California

Well Name	Screened Interval (ft bgs)	Sample Name	Date	MTBE (µg/L)	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
Wells Installed near Former Tank Location (December 1989)																	
MW-1	5 - 20	14/168/MW-1	11/19/01	**79**	<50	<50	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	na
		21/168/MW-1	03/28/02	<0.50	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	<0.50	<0.50	<0.50	<0.50	na
		Dry	08/15/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		011112-21-MW-1-P	11/12/02	**89**	<50	<50	0.8	<0.5	<0.5	<1.0	<50	<1	<1	3	<1	<1	<100
		030224-21-MW-1-P	02/24/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030515-21-MW-1-P	05/15/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		Dry	08/21/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		031121-21-MW-1-P	11/21/03	<0.5	142	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1.0	<1.0	<1	<0.5	<100
		040224-21-MW-1-P	02/24/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<100
		040527-21-MW-1-P	05/27/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		Dry	08/24/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		041119-21-MW-1-P	11/19/04	<0.5	<50	<50	<0.5	0.6	0.6	2.2	<10	<0.5	<1	<1	<1	<0.5	<50
		050225-21-MW-1-P	02/25/05	<0.5	69	<50	<0.5	<0.5	<0.5	3	<10	<0.5	<1	<1	<1	<0.5	<50
		050526-21-MW-1-P	05/26/05	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
MW-2	10 - 25	14/168/MW-2	11/19/01	**24**	<50	<50	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	na
		21/168/MW-2	03/28/02	2.7	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	<0.50	<0.50	<0.50	<0.50	na
		020815-21-MW-2-P	08/15/02	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		011112-21-MW-2-P	11/12/02	**421**	<50	<50	**5.7**	<0.5	<0.5	<1.0	129	<1	<1	17	<1	<1	<100
		030224-21-MW-2-P	02/24/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030515-21-MW-2-P	05/15/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030821-21-MW-2-P	08/21/03	<1	55	<50	<0.5	0.7	<0.5	3 U	<50	<1	<1	<1	<1	<1	<100
		031121-21-MW-2-P	11/21/03	<0.5	92	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1.0	<1.0	<1	<0.5	<100
		040224-21-MW-2-P	02/24/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	0.5	<1	<1	<1	<0.5	<100
		040527-21-MW-2-P	05/27/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		040824-21-MW-2-P	08/24/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		041119-21-MW-2-P	11/19/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050225-21-MW-2-P	02/25/05	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050526-21-MW-2-P	05/26/05	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50

TABLE 3. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - Fuel Constituents
Convenience Acquisition Company, More For Less Store #21
940 Petrified Forest Road; Calistoga, California

Well Name	Screened Interval (ft bgs)	Sample Name	Date	MTBE (µg/L)	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
MW-3	5 - 20	14/168/MW-3	11/19/01	**22**	<50	<50	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	na
		21/168/MW-3	03/28/02	1.0	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	<0.50	<0.50	<0.50	<0.50	na
		Dry	08/15/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		011112-21-MW-3-P	11/12/02	**14**	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030224-21-MW-3-P	02/24/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030515-21-MW-3-P	05/15/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		Dry	08/21/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		031121-21-MW-3-P	11/21/03	<0.5	72	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1.0	<1.0	<1	<0.5	<100
		040224-21-MW-3-P	02/24/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<100
		040527-21-MW-3-P	05/27/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		Dry	08/24/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		041119-21-MW-3-P	11/19/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050225-21-MW-3-P	02/25/05	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050526-21-MW-3-P	05/26/05	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50

TABLE 3. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - Fuel Constituents
Convenience Acquisition Company, More For Less Store #21
940 Petrified Forest Road; Calistoga, California

Well Name	Screened Interval (ft bgs)	Sample Name	Date	MTBE (µg/L)	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
Wells Installed near Current Tank Location (October 2001)																	
MW-4	14 - 24	14/168/MW-4	11/19/01	**8,900**	<5,000	<50	<100	<100	<100	<100	<500	<100	<100	<100	<100	<100	na
		21/168/MW-4	03/28/02	<0.50	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	<0.50	<0.50	<0.50	<0.50	na
		020815-21-MW-4-P	08/15/02	**196**	82	<50	**2.1**	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		021112-21-MW-4-P	11/12/02	**22,690**	934	<50	**175**	<0.5	<0.5	1.6	3,140	<1	<1	870	<1	<1	<100
		021112-21-MW-4-D	11/12/02-Dup	**26,400**	967	<50	**178**	<0.5	<0.5	1.7	3,010	<1	<1	859	<1	<1	<100
		030224-21-MW-4-P	02/24/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030515-21-MW-4-P	05/15/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030821-21-MW-4-P	08/21/03	<1	62	<50	0.6	<0.5	<0.5	1.5 U	<50	<1	<1	<1	<1	<1	<100
		031121-21-MW-4-P	11/21/03	**1,970**	181	<50	**33.9**	<0.5	<0.5	<1.0	325	<0.5	<1.0	11	<1	<0.5	<100
		040224-21-MW-4-P	02/24/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<100
		040224-21-MW-4-D	02/24/04-Dup	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	0.9	<1	<1	<1	<0.5	<100
		040527-21-MW-4-P	05/27/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		040527-21-MW-4-D	5/27/04-Dup	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		040824-21-MW-4-P	08/24/04	1.6	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		041119-21-MW-4-P	11/19/04	10.7	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		041119-21-MW-4-D	11/19/04-Dup	11.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050225-21-MW-4-P	02/25/05	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050225-21-MW-4-D	2/25/05-Dup	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050526-21-MW-4-P	5/26/05	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050526-21-MW-4-D	5/26/05-Dup	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50

TABLE 3. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - Fuel Constituents
Convenience Acquisition Company, More For Less Store #21
940 Petrified Forest Road; Calistoga, California

Well Name	Screened Interval (ft bgs)	Sample Name	Date	MTBE (µg/L)	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
MW-5	14 - 24	14/168/MW-5	11/19/01	**300**	<250	<50	**7.5**	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	na
		21/168/MW-5	03/28/02	0.51	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	<0.50	<0.50	<0.50	<0.50	na
		020815-21-MW-5-P	08/15/02	<1	80	<50	**2.3**	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		020815-21-MW-5-D	8/15/02-Dup	<1	114	<50	**2.4**	1.9	1.2	6.4	<50	<1	<1	<1	<1	<1	<100
		021112-21-MW-5-P	11/12/02	**243**	62	<50	**14**	<0.5	<0.5	<1.0	74	<1	<1	7	<1	<1	<100
		030224-21-MW-5-P	02/24/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030515-21-MW-5-P	05/15/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030821-21-MW-5-P	08/21/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		031121-21-MW-5-P	11/21/03	**72**	100	<50	**9.8**	<0.5	<0.5	<1.0	<10	<0.5	<1.0	<1.0	<1	<0.5	<100
		040224-21-MW-5-P	02/24/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<100
		040527-21-MW-5-P	05/27/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		040824-21-MW-5-P	08/24/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		041119-21-MW-5-P	11/19/04	2	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050225-21-MW-5-P	02/25/05	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050526-21-MW-5-P	05/26/05	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50

TABLE 3. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - Fuel Constituents
Convenience Acquisition Company, More For Less Store #21
940 Petrified Forest Road; Calistoga, California

Well Name	Screened Interval (ft bgs)	Sample Name	Date	MTBE (µg/L)	TPH-Gasoline (µg/L)	TPH-Diesel (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
MW-6	14 - 24	14/168/MW-6	11/19/01	**1,900**	<2,500	54 *	<50	<50	<50	<50	<250	<50	<50	<50	<50	<50	na
		21/168/MW-6	03/28/02	0.67	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<1.0	<0.50	<0.50	<0.50	<0.50	na
		020815-21-MW-6-P	08/15/02	**233**	143	<50	**5.4**	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		021112-21-MW-6-P	11/12/02	**13,600**	219	<50	**52.4**	<0.5	<0.5	<1.0	5,840	<1	<1	208	<1	<1	<100
		030224-21-MW-6-P	02/24/03	4	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030224-21-MW-6-D	2/24/03-Dup	3	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030515-21-MW-6-P	05/15/03	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030515-21-MW-6-D	5/15/03-Dup	<1	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030821-21-MW-6-P	08/21/03	4	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		030821-21-MW-6-D	8/21/03-Dup	4	<50	<50	<0.5	<0.5	<0.5	<1.0	<50	<1	<1	<1	<1	<1	<100
		031121-21-MW-6-P	11/21/03	**250**	73	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1.0	2.9	<1	<0.5	<100
		031121-21-MW-6-D	11/21/03-Dup	**268**	78	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1.0	3.2	<1	<0.5	<100
		040224-21-MW-6-P	02/24/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<100
		040527-21-MW-6-P	05/27/04	**15.9**	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	0.6	<1	<1	<1	<0.5	<50
		040824-21-MW-6-P	08/24/04	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		040824-21-MW-6-D	8/24/04-Dup	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		041119-21-MW-6-P	11/19/04	1.3	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050225-21-MW-6-P	02/25/05	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50
		050526-21-MW-6-P	05/26/05	<0.5	<50	<50	<0.5	<0.5	<0.5	<1.0	<10	<0.5	<1	<1	<1	<0.5	<50

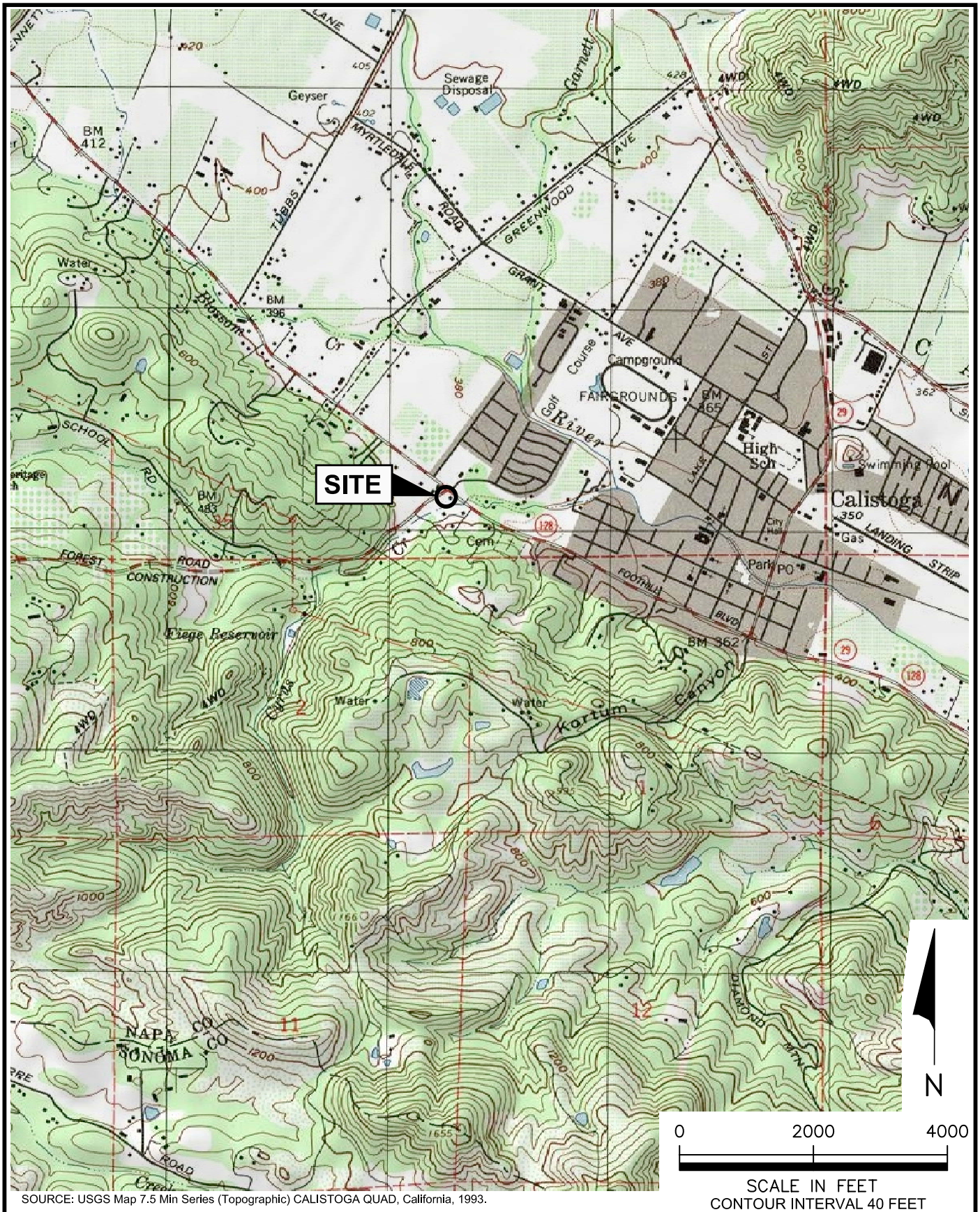
NOTES:

MTBE = Methyl-tert-butyl ether
TPH = Total petroleum hydrocarbons, analyzed using EPA Method 8015M.
Total Xylenes = o-xylene, m-xylene and p-xylene
(ft bgs) = feet below ground surface
(µg/L) = micrograms per liter, or parts per billion
<xx = Analyte not detected above the indicated value
na = not analyzed

TBA = Tert-butyl alcohol
DIPE = Di-isopropyl ether
ETBE = Ethyl-tert-butyl ether

TAME = Tert-amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = Ethylene dibromide

* = For this result, the laboratory indicated that the hydrocarbon reported did not match the pattern of their diesel standard.
"--" indicates data not available because wells MW-1 and MW-3 were dry on August 15, 2002, August 21, 2003 and August 24, 2004 and therefore could not be sampled.
"U" indicates data are qualified due to a detection in an associated equipment blank (1.5U means <1.5 µg/L).
Groundwater samples were collected on 11/19/01 and 3/28/02 by H2O Geol of Livermore, California. Chemical testing was conducted by STL Chromalab of Pleasanton, California.
Groundwater samples were collected on 8/15/02, 11/12/02, 2/24/03, 5/15/03, 8/21/03, 11/21/03, 2/24/04, 5/27/04, 8/24/04, 11/19/04, 2/25/05, and 5/26/05 by ENVIRON. Chemical testing was conducted by North State Environmental Laboratory of South San Francisco, California.
Results above California and federal Maximum Contaminant Levels (MCLs) for drinking water are shown in bold.



SOURCE: USGS Map 7.5 Min Series (Topographic) CALISTOGA QUAD, California, 1993.

0310605M–VICMAP.DWG

ENVIRON

6001 Shellmound St., Suite 700, Emeryville, CA 94608

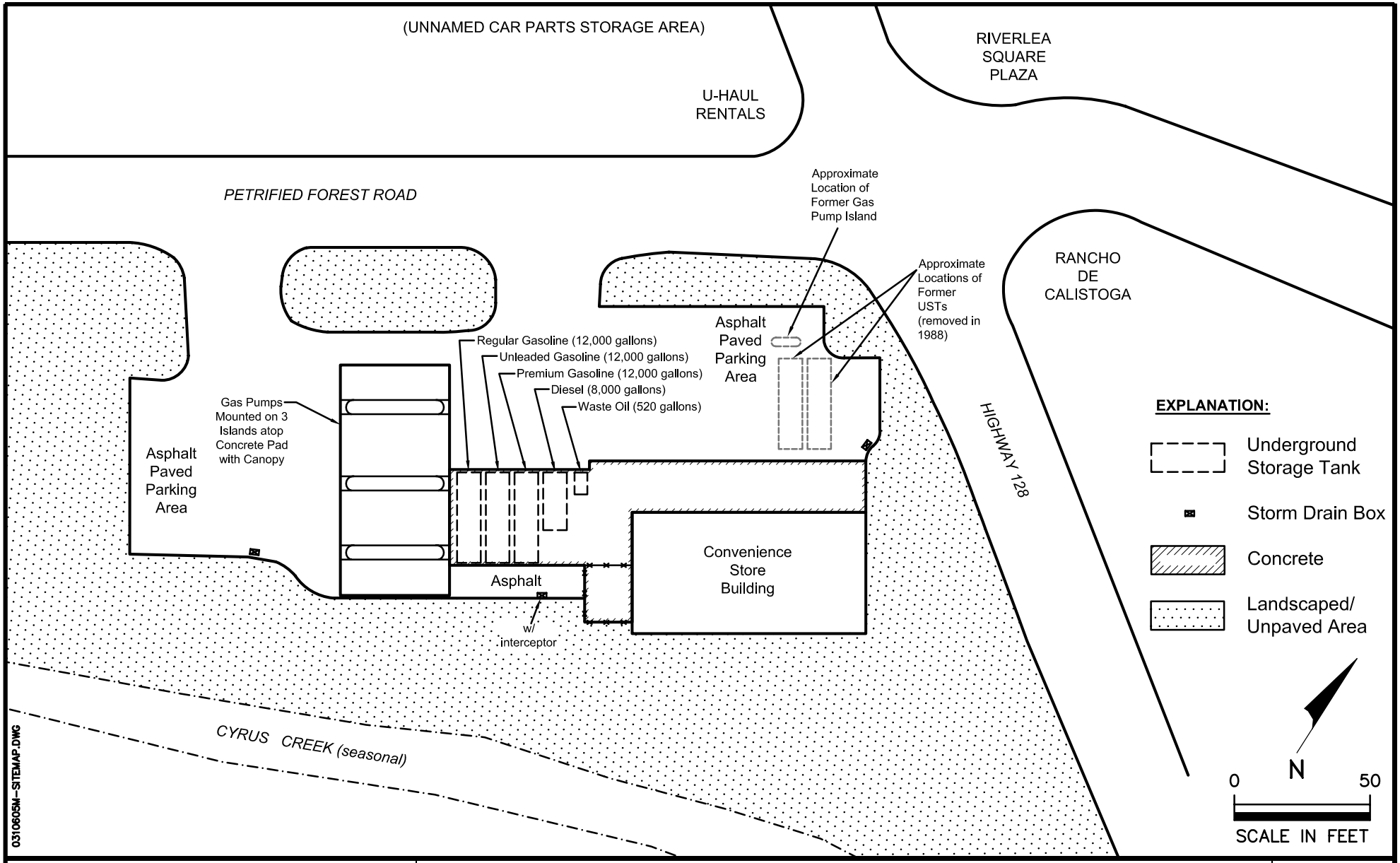
Site Location Map

940 Petrified Forest Road; Calistoga, California

Figure

1

Drafter: RS | Date: 7/12/05 | Contract Number: 03–10605M | Approved: | Revised:



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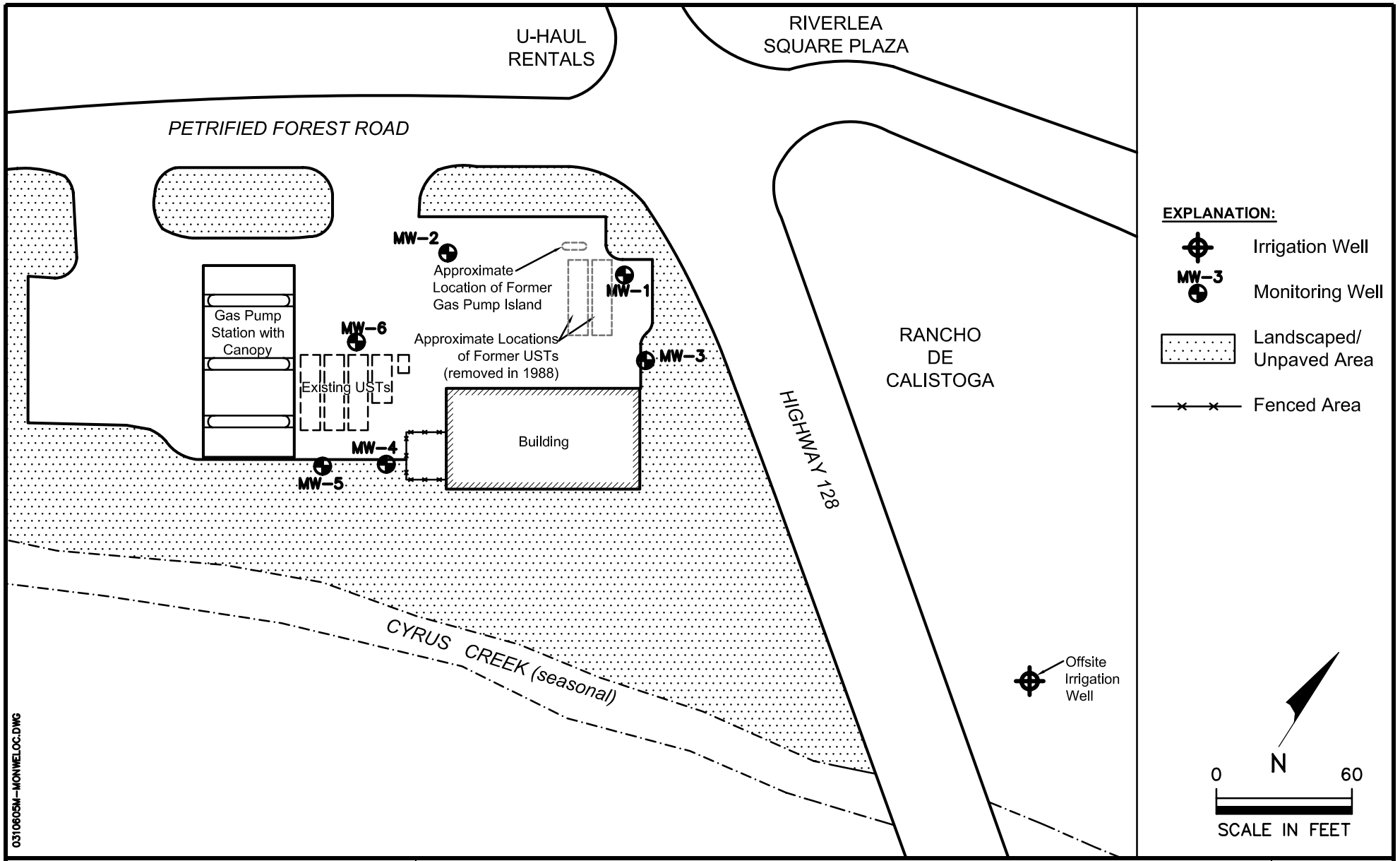
Site Map

Convenience Acquisition Company, More for Less Store #21
940 Petrified Forest Road; Calistoga, California

Figure **2**

Drafter: RS | Date: 7/12/05 | Contract Number: 03–10605M | Approved: | Revised:



ENVIRON

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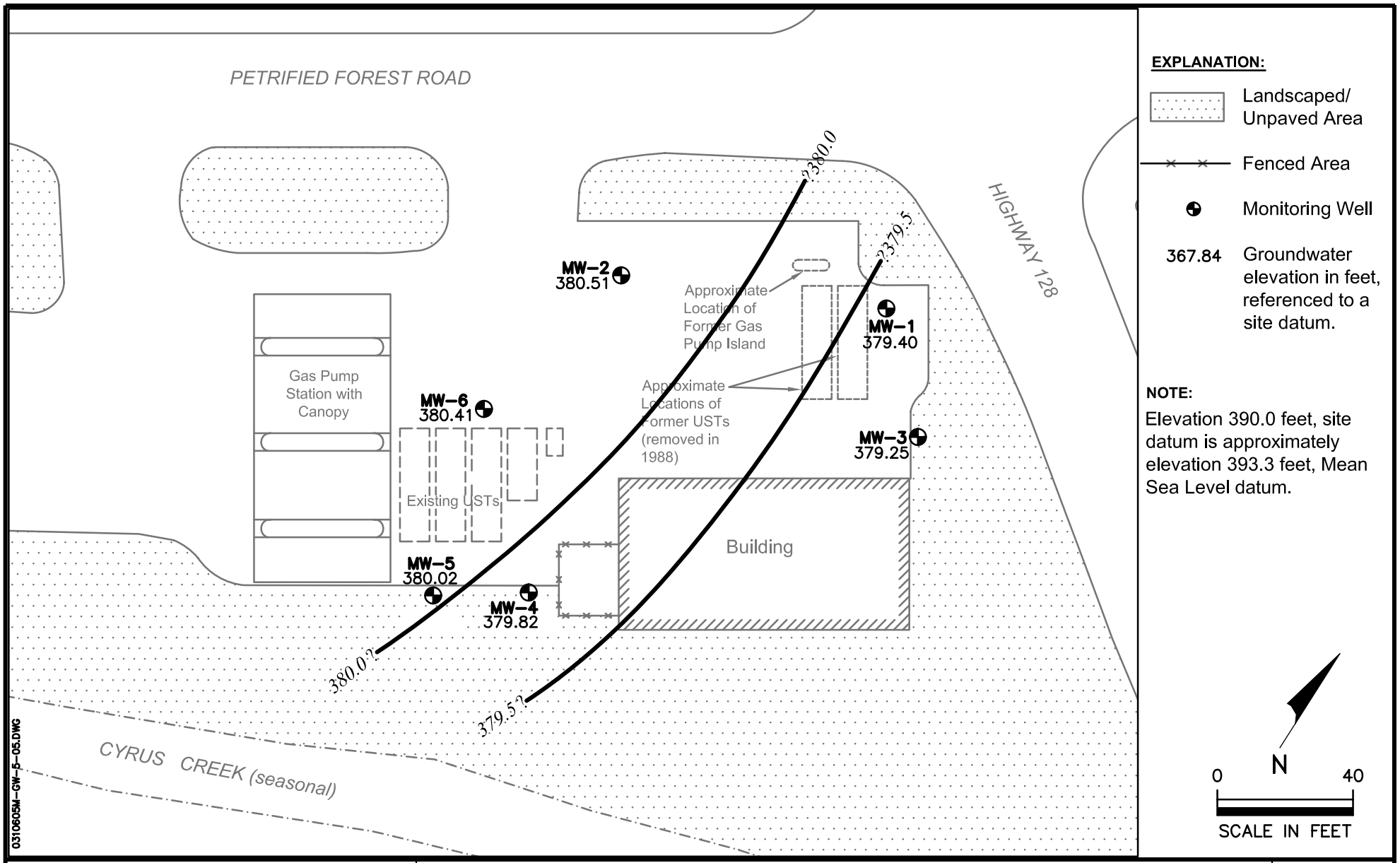
Well Location Map

Convenience Acquisition Company, More for Less Store #21
940 Petrified Forest Road; Calistoga, California

Figure **3**

Drafter: RS | Date: 7/12/05 | Contract Number: 03–10605M | Approved: | Revised:



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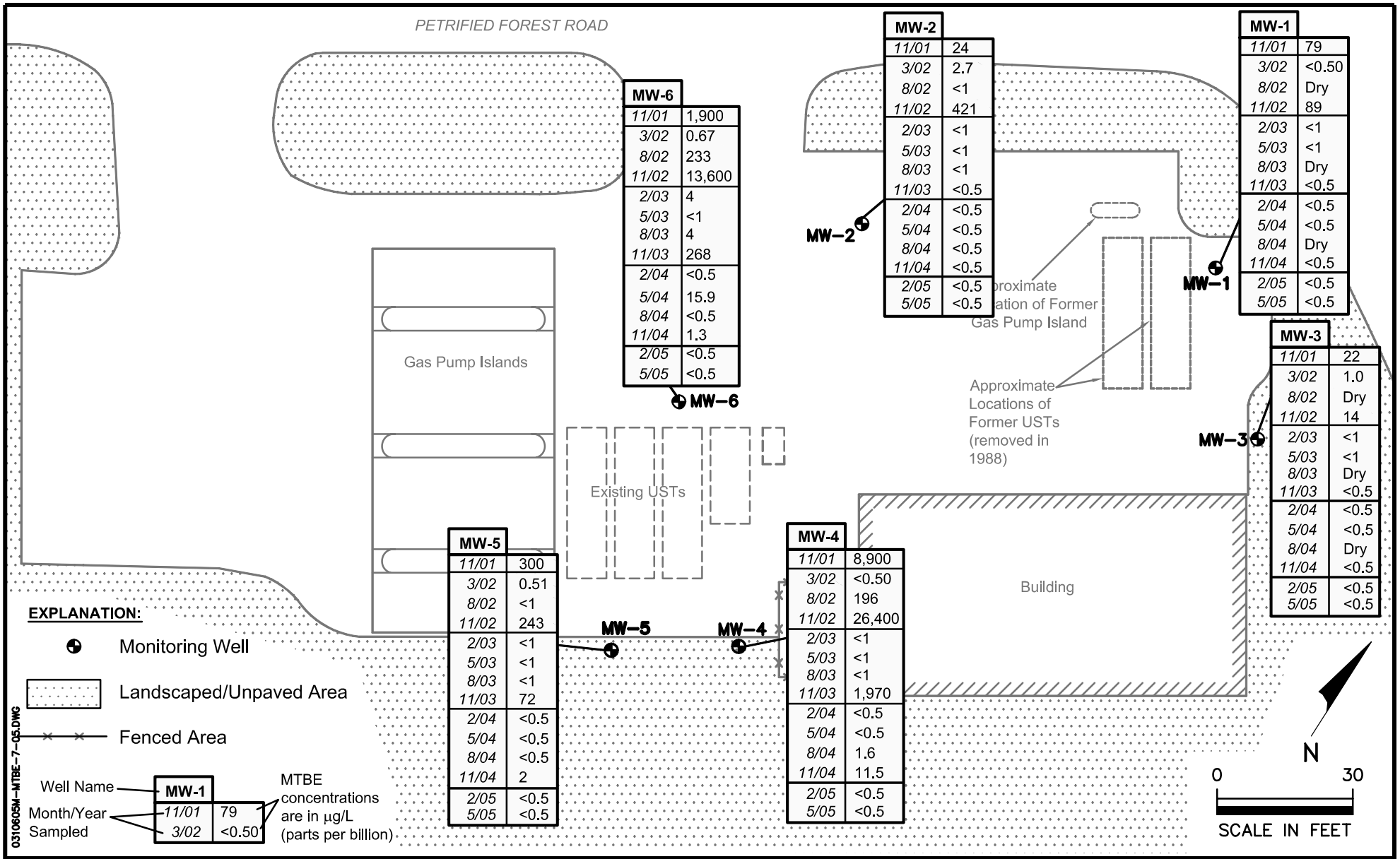
Groundwater Table Contour Map - May 26, 2005

Convenience Acquisition Company, More for Less Store #21

940 Petrified Forest Road; Calistoga, California

Figure 4

Drafter: RS | Date: 7/13/05 | Contract Number: 03-10605M | Approved: | Revised:



ENVIRON

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MTBE Concentrations in Groundwater

Convenience Acquisition Company, More for Less Store #21

940 Petrified Forest Road; Calistoga, California

Figure 5

Drafter: RS | Date: 7/12/05 | Contract Number: 03–10605M | Approved: | Revised:

APPENDIX A

Field Documentation
Water Purging and Sampling Logs

ENVIRO

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Emeryville, California 94608

PRELIMINARY FIELD DRAFT
REVIEW PENDING

WATER PURGING AND SAMPLING LOG

WELL NO: MW-1

PROJECT NAME Hare 4 Less #21
SAMPLING DATE 5/26/05
CONTRACT NUMBER 051026SM
P.M./SAMPLER(S) CR

EQUIPMENT MODEL/TYPE	SERIAL NO.	DATE CALIBRATED	TEMP (°C)	STANDARD/ACTUAL
See MW-3				

PURGING/SAMPLING METHOD Positive Air Displacement / Disp. bailer
EQUIPMENT CLEANING METHOD(S) Steam cleaner
PURGE WATER DISPOSAL METHOD Drum

WELL NUMBER OR SAMPLING LOCATION MW-1
WELL CASING RADIUS (CR) (in) 4
TOTAL DEPTH (TD) OF WELL (ft) 20.53
DEPTH TO WATER (DTW) (ft) 9.19
CASING VOLUME (gal) = (TD-DTW) $(CR)^2$ (.163) = 7.4 x 3 = 22.2

80% = 11.46

PURGING DATA

PURGING START TIME 1001
PURGING RATE (gpm) 1.0 gpm

TIME/GALLONS SINCE START	TEMP (C°)	pH	CONDUCTIVITY (µmhos/cm)	TURBIDITY (NTU)	OTHER
1005 / 4.5	17.1	6.8	120	89	
1011 / 9	16.7	6.4	121	16.8	
1016 / 13.5	16.6	6.1	121	47	
1021 / 18	16.6	6.1	122	27	
1026 / 22.5	16.6	6.1	124	24	
			DTW = 9.97		

PURGING STOP TIME 1026
CASING VOLUMES PURGED 3
GALLONS PURGED 22.5
SAMPLING TIME 1025
OBSERVATIONS/COMMENTS

LABORATORY NAME North State
SAMPLE I.D. 050526-MW1-P

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PRELIMINARY FIELD DRAFT
REVIEW PENDING

WATER PURGING AND SAMPLING LOG

WELL NO: MW-2
PROJECT NAME Mare Island #21
SAMPLING DATE 5/26/05
CONTRACT NUMBER 081066.05M
P.M./SAMPLER(S) CK

EQUIPMENT MODEL/TYPE	SERIAL NO.	DATE CALIBRATED	TEMP (°C)	STANDARD/ACTUAL
See MW-3				

PURGING/SAMPLING METHOD Positive Air Displacement / Disp. Bailer
EQUIPMENT CLEANING METHOD(S) Steam cleaner
PURGE WATER DISPOSAL METHOD Drum

WELL NUMBER OR SAMPLING LOCATION MW-2
WELL CASING RADIUS (CR) (in) 4
TOTAL DEPTH (TD) OF WELL (ft) 24.10 80% = 11.60
DEPTH TO WATER (DTW) (ft) 8.48
CASING VOLUME (gal) = (TD-DTW) (CR)² (.163) = 10.2 x 3 = 30.5

PURGING DATA

PURGING START TIME 1037 PURGING RATE (gpm) 1.0 gpm

TIME/GALLONS SINCE START	TEMP (C°)	pH	CONDUCTIVITY (µmhos/cm)	TURBIDITY (NTU)	OTHER
1037 /5	16.8	6.7	112	50	
1049 /10	16.5	6.3	111	11	
1055 /15	16.5	6.3	111	8	
1102 /20	16.4	6.3	111	7	
1108 /25	16.5	6.3	111	7	
1114 /30.5	16.5	6.3	111	7	
			DTW = 8.60		

PURGING STOP TIME 1114 CASING VOLUMES PURGED 3
GALLONS PURGED 30.5 SAMPLING TIME 1115
OBSERVATIONS/COMMENTS

LABORATORY NAME North State SAMPLE I.D. 050526-MW2-P

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PRELIMINARY FIELD DRAFT
REVIEW PENDING

WATER PURGING AND SAMPLING LOG

PROJECT NAME More 4 Less #21
CONTRACT NUMBER 0310605M
WELL NO: MW-3
SAMPLING DATE 5/26/05
P.M./SAMPLER(S) CR

EQUIPMENT MODEL/TYPE	SERIAL NO.	DATE CALIBRATED	TEMP (°C)	STANDARD/ACTUAL
Myron Ultrameter		5/26	840	pH 4/4.0
				7/7.0
				10/10.0
				Cond 5900/3900
HACH Turbidimeter		5/26	840	550, 500/652, 498

PURGING/SAMPLING METHOD Positive Air Displacement/ Disp. bailer
EQUIPMENT CLEANING METHOD(S) Steam Cleaner
PURGE WATER DISPOSAL METHOD Drum

WELL NUMBER OR SAMPLING LOCATION MW-3
WELL CASING RADIUS (CR) (in) 4
TOTAL DEPTH (TD) OF WELL (ft) 19.95
DEPTH TO WATER (DTW) (ft) 9.04 80% = 11.22
CASING VOLUME (gal) = (TD-DTW) $(CR)^2$ (.163) = 7 x 3 = 21

PURGING DATA

PURGING START TIME 922 PURGING RATE (gpm) 1.0 gpm

TIME/GALLONS SINCE START	TEMP (C°)	pH	CONDUCTIVITY (µmhos/cm)	TURBIDITY (NTU)	OTHER
927/4	16.0	7.9	182	333	
933/8	16.3		127	21	
937/12	16.4	6.3	122	17	
942/16	16.4	6.5	123	11	
948/21	16.6	6.3	125	10	
			DTW =	11.11	

PURGING STOP TIME 948 CASING VOLUMES PURGED 3
GALLONS PURGED 21 SAMPLING TIME 955
OBSERVATIONS/COMMENTS

LABORATORY NAME North State SAMPLE I.D. 050526-MW3-P

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PRELIMINARY FIELD DRAFT
REVIEW PENDING

WATER PURGING AND SAMPLING LOG

PROJECT NAME: More 4 Less #21
CONTRACT NUMBER: 031060SM

WELL NO: MW-4
SAMPLING DATE: 5/26/05
P.M./SAMPLER(S): CK

EQUIPMENT MODEL/TYPE	SERIAL NO.	DATE CALIBRATED	TEMP (°C)	STANDARD/ACTUAL
See MW-3				

PURGING/SAMPLING METHOD: Positive Air Displacement / Disp. bailer
EQUIPMENT CLEANING METHOD(S): Steam cleaner
PURGE WATER DISPOSAL METHOD: Drum

WELL NUMBER OR SAMPLING LOCATION: MW-4
WELL CASING RADIUS (CR) (in): 2
TOTAL DEPTH (TD) OF WELL (ft): 24.30
DEPTH TO WATER (DTW) (ft): 8.72
CASING VOLUME (gal) = (TD-DTW) (CR)² (.163) = 2.5 X3 = 7.5

80% = 11.84

PURGING DATA

PURGING START TIME: 1209
PURGING RATE (gpm): 1 gpm

TIME/GALLONS SINCE START	TEMP (C°)	pH	CONDUCTIVITY (µmhos/cm)	TURBIDITY (NTU)	OTHER
1212 / 2	15.8	6.6	96.00	806	
1214 / 4	15.0	6.4	96.31	246	
1216 / 6	14.6	6.4	96.27	86	
1218 / 7.5	14.4	6.4	96.18	79	

PURGING STOP TIME: 1218
GALLONS PURGED: 7.5
CASING VOLUMES PURGED: 3
SAMPLING TIME: 1235
OBSERVATIONS/COMMENTS:

LABORATORY NAME: North State
SAMPLE I.D.: 050526-MW4-D
050526-MW4-D 1238

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PRELIMINARY FIELD DRAFT
REVIEW PENDING

WATER PURGING AND SAMPLING LOG

WELL NO: MW-5
PROJECT NAME: More 4 Less #21
SAMPLING DATE: 5/26/05
CONTRACT NUMBER: 031060SM
P.M./SAMPLER(S): CR

EQUIPMENT MODEL/TYPE	SERIAL NO.	DATE CALIBRATED	TEMP (°C)	STANDARD/ACTUAL
See MW-3				

PURGING/SAMPLING METHOD: Positive Air Displacement / Disp. bailer
EQUIPMENT CLEANING METHOD(S): Steam cleaner
PURGE WATER DISPOSAL METHOD: Drum

WELL NUMBER OR SAMPLING LOCATION: MW-5
WELL CASING RADIUS (CR) (in): 2
TOTAL DEPTH (TD) OF WELL (ft): 23.93
DEPTH TO WATER (DTW) (ft): 8.08 — 80% = 11.25
CASING VOLUME (gal) = (TD-DTW) (CR)² (.163) = 2.5 x 3 = 7.5

PURGING DATA

PURGING START TIME: 1157
PURGING RATE (gpm): 1gpm

TIME/GALLONS SINCE START	TEMP (C)	pH	CONDUCTIVITY (μmhos/cm)	TURBIDITY (NTU)	OTHER
1159 / 2	16.1	6.6	99.35 μs	841	
1201 / 4	15.1	6.3	98.54	263	
1203 / 6	14.8	6.3	98.22	109	
1205 / 7.5	14.4	6.3	98.10	101	
			DTW = 8.10		

PURGING STOP TIME: 1205
CASING VOLUMES PURGED: 3
GALLONS PURGED: 7.5
SAMPLING TIME: 1210
OBSERVATIONS/COMMENTS:

LABORATORY NAME: North State
SAMPLE I.D.: 050526-MW5-D

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PRELIMINARY FIELD DRAFT
REVIEW PENDING

WATER PURGING AND SAMPLING LOG

PROJECT NAME Hoe 4 Loss #21
CONTRACT NUMBER 031060SM

WELL NO: MW-6
SAMPLING DATE 5/26/05
P.M./SAMPLER(S) CR

EQUIPMENT MODEL/TYPE	SERIAL NO.	DATE CALIBRATED	TEMP (°C)	STANDARD/ACTUAL
See MW-3				

PURGING/SAMPLING METHOD Positive Air Displacement / Disp. bailer
EQUIPMENT CLEANING METHOD(S) Steam cleaner
PURGE WATER DISPOSAL METHOD Drum

WELL NUMBER OR SAMPLING LOCATION MW-6
WELL CASING RADIUS (CR) (in) 2
TOTAL DEPTH (TD) OF WELL (ft) 24.16
DEPTH TO WATER (DTW) (ft) 7.55
CASING VOLUME (gal) = (TD-DTW) (CR)² (.163) = 2.7 x3 = 8

80% = 10.07

PURGING DATA

PURGING START TIME 1122
PURGING RATE (gpm) 1 gpm

TIME/GALLONS SINCE START	TEMP (C°)	pH	CONDUCTIVITY (µmhos/cm)	TURBIDITY (NTU)	OTHER
1124 / 2	17.7	6.5	109	1000	
1126 / 4	16.5	6.3	105	247	
1128 / 6	16.0	6.2	104	221	
1130 / 8	15.7	6.2	104	217	
			DTW= 7.58		

PURGING STOP TIME 1130
GALLONS PURGED 8
CASING VOLUMES PURGED 3
SAMPLING TIME 1135
OBSERVATIONS/COMMENTS

LABORATORY NAME North State
SAMPLE I.D. 050526-MW6-P

WELL GAUGING DATA

Project # 050526-Bal1 Date 5/26/05 Client Environ

Site 940 Petrified Forest Rd. Calistoga

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4					9.19	20.53	TOC	
MW-2	4					8.48	24.10		
MW-3	4					9.04	19.95		
MW-4	2					8.72	24.30		
MW-5	2					8.08	23.93		
MW-6	2					7.55	24.16		

APPENDIX B

Analytical Laboratory Report for Onsite Monitoring Wells

Laboratory Report Project Overview

EDF 1.2a

Laboratory:	North State Environmental, South San Francisco, CA
Lab Report Number:	05-0796
Project Name:	MORE FOR LESS
Work Order Number:	05-0796
Control Sheet Number:	T0605500132

Case Narrative

North State Environmental, South San Francisco, CA

Report Date: 06/06/2005	Project: MORE FOR LESS
Report Number: 05-0796	Order #: 05-0796

Eight water samples were received under chain of custody control and analyzed for diesel and gasoline range organics by method 8015B and fuel oxygenates with BTEX by GC/MS method 8260B. No errors were noted during analysis. All QA/QC sample results met acceptance criteria except the MS/MSD results for 1,1-dichloroethene (spiked sample 05-0796-05); the batch for this compound was accepted by and reported with the LCS/LCSD results.

Approved by: _____ Date: 6/06/05

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
05-0796	21-MW-1-P	05-0796-01	W	CS	8260FAB	SW5030B	05/26/2005	06/02/2005	06/03/2005	06025OBXW5	1	
05-0796	21-MW-1-P	05-0796-01	W	CS	CATFH	SW3510	05/26/2005	06/01/2005	06/02/2005	06015TPHDW	1	
05-0796	21-MW-1-P	05-0796-01	W	CS	SW8020F	SW5030B	05/26/2005	06/01/2005	06/01/2005	06015TPHGW	1	
05-0796	21-MW-2-P	05-0796-02	W	CS	8260FAB	SW5030B	05/26/2005	06/02/2005	06/03/2005	06025OBXW5	1	
05-0796	21-MW-2-P	05-0796-02	W	CS	CATFH	SW3510	05/26/2005	06/01/2005	06/02/2005	06015TPHDW	1	
05-0796	21-MW-2-P	05-0796-02	W	CS	SW8020F	SW5030B	05/26/2005	06/01/2005	06/01/2005	06015TPHGW	1	
05-0796	21-MW-3-P	05-0796-03	W	CS	8260FAB	SW5030B	05/26/2005	06/02/2005	06/03/2005	06025OBXW5	1	
05-0796	21-MW-3-P	05-0796-03	W	CS	CATFH	SW3510	05/26/2005	06/01/2005	06/02/2005	06015TPHDW	1	
05-0796	21-MW-3-P	05-0796-03	W	CS	SW8020F	SW5030B	05/26/2005	06/01/2005	06/01/2005	06015TPHGW	1	
05-0796	21-MW-4-D	05-0796-08	W	CS	8260FAB	SW5030B	05/26/2005	06/02/2005	06/03/2005	06025OBXW5	1	
05-0796	21-MW-4-D	05-0796-08	W	CS	CATFH	SW3510	05/26/2005	06/01/2005	06/02/2005	06015TPHDW	1	
05-0796	21-MW-4-D	05-0796-08	W	CS	SW8020F	SW5030B	05/26/2005	06/01/2005	06/01/2005	06015TPHGW	1	
05-0796	21-MW-4-E	05-0796-06	W	CS	8260FAB	SW5030B	05/26/2005	06/02/2005	06/03/2005	06025OBXW5	1	
05-0796	21-MW-4-E	05-0796-06	W	CS	CATFH	SW3510	05/26/2005	06/01/2005	06/02/2005	06015TPHDW	1	
05-0796	21-MW-4-E	05-0796-06	W	CS	SW8020F	SW5030B	05/26/2005	06/01/2005	06/01/2005	06015TPHGW	1	
05-0796	21-MW-4-P	05-0796-07	W	CS	8260FAB	SW5030B	05/26/2005	06/02/2005	06/03/2005	06025OBXW5	1	
05-0796	21-MW-4-P	05-0796-07	W	CS	CATFH	SW3510	05/26/2005	06/01/2005	06/02/2005	06015TPHDW	1	
05-0796	21-MW-4-P	05-0796-07	W	CS	SW8020F	SW5030B	05/26/2005	06/01/2005	06/01/2005	06015TPHGW	1	
05-0796	21-MW-5-P	05-0796-05	W	CS	8260FAB	SW5030B	05/26/2005	06/02/2005	06/03/2005	06025OBXW5	1	
05-0796	21-MW-5-P	05-0796-05	W	CS	CATFH	SW3510	05/26/2005	06/01/2005	06/02/2005	06015TPHDW	1	
05-0796	21-MW-5-P	05-0796-05	W	CS	SW8020F	SW5030B	05/26/200	06/01/200	06/01/200	06015TPHGW	1	

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
							5	5	5			
05-0796	21-MW-6-P	05-0796-04	W	CS	8260FAB	SW5030B	05/26/2005	06/02/2005	06/03/2005	06025OBXW5	1	
05-0796	21-MW-6-P	05-0796-04	W	CS	CATFH	SW3510	05/26/2005	06/01/2005	06/02/2005	06015TPHDW	1	
05-0796	21-MW-6-P	05-0796-04	W	CS	SW8020F	SW5030B	05/26/2005	06/01/2005	06/01/2005	06015TPHGW	1	
		05-0796-05	W	NC	8260FAB	SW5030B	/ /	06/02/2005	06/03/2005	06025OBXW5	1	
		LCSD	W	BD1	8260FAB	SW5030B	/ /	06/02/2005	06/03/2005	06025OBXW5	1	
		LCS	W	BS1	8260FAB	SW5030B	/ /	06/02/2005	06/03/2005	06025OBXW5	1	
		BLK	W	LB1	8260FAB	SW5030B	/ /	05/20/2005	06/02/2005	06025OBXW5	1	
		BLK	W	LB1	SW8020F	SW5030B	/ /	06/01/2005	06/01/2005	06015TPHGW	1	
		WBLK	W	LB1	CATFH	SW3510	/ /	06/01/2005	06/01/2005	06015TPHDW	1	
		0796-05 MS	W	MS1	8260FAB	SW5030B	/ /	06/02/2005	06/03/2005	06025OBXW5	1	
		0796-05 MS	W	MS1	CATFH	SW3510	/ /	06/01/2005	06/02/2005	06015TPHDW	1	
		0796-05 MS	W	MS1	SW8020F	SW5030B	/ /	06/01/2005	06/01/2005	06015TPHGW	1	
		0796-05 MSD	W	SD1	8260FAB	SW5030B	/ /	06/02/2005	06/03/2005	06025OBXW5	1	
		0796-05 MSD	W	SD1	CATFH	SW3510	/ /	06/01/2005	06/02/2005	06015TPHDW	1	
		0796-05 MSD	W	SD1	SW8020F	SW5030B	/ /	06/01/2005	06/01/2005	06015TPHGW	1	

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0796 Date: 06/06/2005

Project Name:	MORE FOR LESS	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX
Project No:	05-0796	Method:	8260FAB
		Prep Meth:	SW5030B

Field ID:	21-MW-1-P	Lab Samp ID:	05-0796-01
Descr/Location:	MW-1	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/02/2005
Sample Time:	1025	Analysis Date:	06/03/2005
Matrix:	Water	QC Batch:	06025OBXW5
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.191	0.5	PQL		ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.214	1.	PQL		ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.209	1.	PQL		ND	UG/L	1
Di-isopropyl ether (DIPE)	0.197	0.5	PQL		ND	UG/L	1
tert-Butyl alcohol (TBA)	3.910	10.	PQL		ND	UG/L	1
1,2-Dichloroethane	0.250	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.123	1.	PQL		ND	UG/L	1
Ethanol (EtOH)	9.731	50.	PQL		ND	UG/L	1
Benzene	0.077	0.5	PQL		ND	UG/L	1
Toluene	0.199	0.5	PQL		ND	UG/L	1
Ethylbenzene	0.146	0.5	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.146	1.	PQL		ND	UG/L	1
o-Xylene	0.256	0.5	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		85-115	SLSA		93%		1
Toluene-d8		85-115	SLSA		90%		1
Dibromofluoromethane		85-115	SLSA		98%		1
1,2-Dichloroethane-d4		85-115	SLSA		101%		1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX
Project No:	05-0796	Method:	8260FAB
		Prep Meth:	SW5030B

Field ID:	21-MW-2-P	Lab Samp ID:	05-0796-02
Descr/Location:	MW-2	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/02/2005
Sample Time:	1115	Analysis Date:	06/03/2005
Matrix:	Water	QC Batch:	06025OBXW5
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.191	0.5	PQL		ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.214	1.	PQL		ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.209	1.	PQL		ND	UG/L	1
Di-isopropyl ether (DIPE)	0.197	0.5	PQL		ND	UG/L	1
tert-Butyl alcohol (TBA)	3.910	10.	PQL		ND	UG/L	1
1,2-Dichloroethane	0.250	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.123	1.	PQL		ND	UG/L	1
Ethanol (EtOH)	9.731	50.	PQL		ND	UG/L	1
Benzene	0.077	0.5	PQL		ND	UG/L	1
Toluene	0.199	0.5	PQL		ND	UG/L	1
Ethylbenzene	0.146	0.5	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.146	1.	PQL		ND	UG/L	1
o-Xylene	0.256	0.5	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		85-115	SLSA		101%		1
Toluene-d8		85-115	SLSA		89%		1
Dibromofluoromethane		85-115	SLSA		99%		1
1,2-Dichloroethane-d4		85-115	SLSA		106%		1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX
Project No:	05-0796	Method:	8260FAB
		Prep Meth:	SW5030B

Field ID:	21-MW-3-P	Lab Samp ID:	05-0796-03
Descr/Location:	MW-3	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/02/2005
Sample Time:	0955	Analysis Date:	06/03/2005
Matrix:	Water	QC Batch:	06025OBXW5
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.191	0.5	PQL		ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.214	1.	PQL		ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.209	1.	PQL		ND	UG/L	1
Di-isopropyl ether (DIPE)	0.197	0.5	PQL		ND	UG/L	1
tert-Butyl alcohol (TBA)	3.910	10.	PQL		ND	UG/L	1
1,2-Dichloroethane	0.250	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.123	1.	PQL		ND	UG/L	1
Ethanol (EtOH)	9.731	50.	PQL		ND	UG/L	1
Benzene	0.077	0.5	PQL		ND	UG/L	1
Toluene	0.199	0.5	PQL		ND	UG/L	1
Ethylbenzene	0.146	0.5	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.146	1.	PQL		ND	UG/L	1
o-Xylene	0.256	0.5	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		85-115	SLSA		100%		1
Toluene-d8		85-115	SLSA		90%		1
Dibromofluoromethane		85-115	SLSA		101%		1
1,2-Dichloroethane-d4		85-115	SLSA		112%		1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX
Project No:	05-0796	Method:	8260FAB
		Prep Meth:	SW5030B

Field ID:	21-MW-4-D	Lab Samp ID:	05-0796-08
Descr/Location:	MW-4	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/02/2005
Sample Time:	1238	Analysis Date:	06/03/2005
Matrix:	Water	QC Batch:	06025OBXW5
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.191	0.5	PQL		ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.214	1.	PQL		ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.209	1.	PQL		ND	UG/L	1
Di-isopropyl ether (DIPE)	0.197	0.5	PQL		ND	UG/L	1
tert-Butyl alcohol (TBA)	3.910	10.	PQL		ND	UG/L	1
1,2-Dichloroethane	0.250	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.123	1.	PQL		ND	UG/L	1
Ethanol (EtOH)	9.731	50.	PQL		ND	UG/L	1
Benzene	0.077	0.5	PQL		ND	UG/L	1
Toluene	0.199	0.5	PQL		ND	UG/L	1
Ethylbenzene	0.146	0.5	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.146	1.	PQL		ND	UG/L	1
o-Xylene	0.256	0.5	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		85-115	SLSA		96%		1
Toluene-d8		85-115	SLSA		86%		1
Dibromofluoromethane		85-115	SLSA		111%		1
1,2-Dichloroethane-d4		85-115	SLSA		111%		1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX
Project No:	05-0796	Method:	8260FAB
		Prep Meth:	SW5030B

Field ID:	21-MW-4-P	Lab Samp ID:	05-0796-07
Descr/Location:	MW-4	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/02/2005
Sample Time:	1235	Analysis Date:	06/03/2005
Matrix:	Water	QC Batch:	06025OBXW5
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.191	0.5	PQL		ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.214	1.	PQL		ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.209	1.	PQL		ND	UG/L	1
Di-isopropyl ether (DIPE)	0.197	0.5	PQL		ND	UG/L	1
tert-Butyl alcohol (TBA)	3.910	10.	PQL		ND	UG/L	1
1,2-Dichloroethane	0.250	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.123	1.	PQL		ND	UG/L	1
Ethanol (EtOH)	9.731	50.	PQL		ND	UG/L	1
Benzene	0.077	0.5	PQL		ND	UG/L	1
Toluene	0.199	0.5	PQL		ND	UG/L	1
Ethylbenzene	0.146	0.5	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.146	1.	PQL		ND	UG/L	1
o-Xylene	0.256	0.5	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		85-115	SLSA		93%		1
Toluene-d8		85-115	SLSA		90%		1
Dibromofluoromethane		85-115	SLSA		106%		1
1,2-Dichloroethane-d4		85-115	SLSA		108%		1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX
Project No:	05-0796	Method:	8260FAB
		Prep Meth:	SW5030B

Field ID:	21-MW-5-P	Lab Samp ID:	05-0796-05
Descr/Location:	MW-5	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/02/2005
Sample Time:	1210	Analysis Date:	06/03/2005
Matrix:	Water	QC Batch:	06025OBXW5
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.191	0.5	PQL		ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.214	1.	PQL		ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.209	1.	PQL		ND	UG/L	1
Di-isopropyl ether (DIPE)	0.197	0.5	PQL		ND	UG/L	1
tert-Butyl alcohol (TBA)	3.910	10.	PQL		ND	UG/L	1
1,2-Dichloroethane	0.250	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.123	1.	PQL		ND	UG/L	1
Ethanol (EtOH)	9.731	50.	PQL		ND	UG/L	1
Benzene	0.077	0.5	PQL		ND	UG/L	1
Toluene	0.199	0.5	PQL		ND	UG/L	1
Ethylbenzene	0.146	0.5	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.146	1.	PQL		ND	UG/L	1
o-Xylene	0.256	0.5	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		85-115	SLSA		92%		1
Toluene-d8		85-115	SLSA		90%		1
Dibromofluoromethane		85-115	SLSA		109%		1
1,2-Dichloroethane-d4		85-115	SLSA		110%		1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX
Project No:	05-0796	Method:	8260FAB
		Prep Meth:	SW5030B

Field ID:	21-MW-6-P	Lab Samp ID:	05-0796-04
Descr/Location:	MW-6	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/02/2005
Sample Time:	1135	Analysis Date:	06/03/2005
Matrix:	Water	QC Batch:	06025OBXW5
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.191	0.5	PQL		ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.214	1.	PQL		ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.209	1.	PQL		ND	UG/L	1
Di-isopropyl ether (DIPE)	0.197	0.5	PQL		ND	UG/L	1
tert-Butyl alcohol (TBA)	3.910	10.	PQL		ND	UG/L	1
1,2-Dichloroethane	0.250	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.123	1.	PQL		ND	UG/L	1
Ethanol (EtOH)	9.731	50.	PQL		ND	UG/L	1
Benzene	0.077	0.5	PQL		ND	UG/L	1
Toluene	0.199	0.5	PQL		ND	UG/L	1
Ethylbenzene	0.146	0.5	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.146	1.	PQL		ND	UG/L	1
o-Xylene	0.256	0.5	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		85-115	SLSA		101%		1
Toluene-d8		85-115	SLSA		90%		1
Dibromofluoromethane		85-115	SLSA		100%		1
1,2-Dichloroethane-d4		85-115	SLSA		109%		1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX
Project No:	05-0796	Method:	8260FAB
		Prep Meth:	SW5030B

Field ID:	21-MW-4-E	Lab Samp ID:	05-0796-06
Descr/Location:	QCEB-4	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/02/2005
Sample Time:	1205	Analysis Date:	06/03/2005
Matrix:	Water	QC Batch:	06025OBXW5
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.191	0.5	PQL		ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.214	1.	PQL		ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.209	1.	PQL		ND	UG/L	1
Di-isopropyl ether (DIPE)	0.197	0.5	PQL		ND	UG/L	1
tert-Butyl alcohol (TBA)	3.910	10.	PQL		ND	UG/L	1
1,2-Dichloroethane	0.250	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.123	1.	PQL		ND	UG/L	1
Ethanol (EtOH)	9.731	50.	PQL		ND	UG/L	1
Benzene	0.077	0.5	PQL		ND	UG/L	1
Toluene	0.199	0.5	PQL		ND	UG/L	1
Ethylbenzene	0.146	0.5	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.146	1.	PQL		ND	UG/L	1
o-Xylene	0.256	0.5	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		85-115	SLSA		103%		1
Toluene-d8		85-115	SLSA		89%		1
Dibromofluoromethane		85-115	SLSA		103%		1
1,2-Dichloroethane-d4		85-115	SLSA		114%		1

Approved by: _____ Date: _____

Lab Report No.: 05-0796 Date: 06/06/2005

Project Name:	MORE FOR LESS	Analysis:	CA LUFT Method for Total Fuel Hydrocarbons
Project No:	05-0796	Method:	CATFH
		Prep Meth:	SW3510

Field ID:	21-MW-1-P	Lab Samp ID:	05-0796-01
Descr/Location:	MW-1	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1025	Analysis Date:	06/02/2005
Matrix:	Water	QC Batch:	06015TPHDW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Diesel Fuel #2	0.031	0.05	PQL		ND	MG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	CA LUFT Method for Total Fuel Hydrocarbons
Project No:	05-0796	Method:	CATFH
		Prep Meth:	SW3510

Field ID:	21-MW-2-P	Lab Samp ID:	05-0796-02
Descr/Location:	MW-2	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1115	Analysis Date:	06/02/2005
Matrix:	Water	QC Batch:	06015TPHDW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Diesel Fuel #2	0.031	0.05	PQL		ND	MG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	CA LUFT Method for Total Fuel Hydrocarbons
Project No:	05-0796	Method:	CATFH
		Prep Meth:	SW3510

Field ID:	21-MW-3-P	Lab Samp ID:	05-0796-03
Descr/Location:	MW-3	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	0955	Analysis Date:	06/02/2005
Matrix:	Water	QC Batch:	06015TPHDW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Diesel Fuel #2	0.031	0.05	PQL		ND	MG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	CA LUFT Method for Total Fuel Hydrocarbons
Project No:	05-0796	Method:	CATFH
		Prep Meth:	SW3510

Field ID:	21-MW-4-D	Lab Samp ID:	05-0796-08
Descr/Location:	MW-4	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1238	Analysis Date:	06/02/2005
Matrix:	Water	QC Batch:	06015TPHDW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Diesel Fuel #2	0.031	0.05	PQL		ND	MG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	CA LUFT Method for Total Fuel Hydrocarbons
Project No:	05-0796	Method:	CATFH
		Prep Meth:	SW3510

Field ID:	21-MW-4-P	Lab Samp ID:	05-0796-07
Descr/Location:	MW-4	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1235	Analysis Date:	06/02/2005
Matrix:	Water	QC Batch:	06015TPHDW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Diesel Fuel #2	0.031	0.05	PQL		ND	MG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	CA LUFT Method for Total Fuel Hydrocarbons
Project No:	05-0796	Method:	CATFH
		Prep Meth:	SW3510

Field ID:	21-MW-5-P	Lab Samp ID:	05-0796-05
Descr/Location:	MW-5	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1210	Analysis Date:	06/02/2005
Matrix:	Water	QC Batch:	06015TPHDW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Diesel Fuel #2	0.031	0.05	PQL		ND	MG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	CA LUFT Method for Total Fuel Hydrocarbons
Project No:	05-0796	Method:	CATFH
		Prep Meth:	SW3510

Field ID:	21-MW-6-P	Lab Samp ID:	05-0796-04
Descr/Location:	MW-6	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1135	Analysis Date:	06/02/2005
Matrix:	Water	QC Batch:	06015TPHDW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Diesel Fuel #2	0.031	0.05	PQL		ND	MG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	CA LUFT Method for Total Fuel Hydrocarbons
Project No:	05-0796	Method:	CATFH
		Prep Meth:	SW3510

Field ID:	21-MW-4-E	Lab Samp ID:	05-0796-06
Descr/Location:	QCEB-4	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1205	Analysis Date:	06/02/2005
Matrix:	Water	QC Batch:	06015TPHDW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Diesel Fuel #2	0.031	0.05	PQL		ND	MG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	BTEX/Gasoline Range Organics (SW8020/8015)
Project No:	05-0796	Method:	SW8020F
		Prep Meth:	SW5030B

Field ID:	21-MW-1-P	Lab Samp ID:	05-0796-01
Descr/Location:	MW-1	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1025	Analysis Date:	06/01/2005
Matrix:	Water	QC Batch:	06015TPHGW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	13.7	50.	PQL		ND	UG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	BTEX/Gasoline Range Organics (SW8020/8015)
Project No:	05-0796	Method:	SW8020F
		Prep Meth:	SW5030B

Field ID:	21-MW-2-P	Lab Samp ID:	05-0796-02
Descr/Location:	MW-2	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1115	Analysis Date:	06/01/2005
Matrix:	Water	QC Batch:	06015TPHGW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	13.7	50.	PQL		ND	UG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	BTEX/Gasoline Range Organics (SW8020/8015)
Project No:	05-0796	Method:	SW8020F
		Prep Meth:	SW5030B

Field ID:	21-MW-3-P	Lab Samp ID:	05-0796-03
Descr/Location:	MW-3	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	0955	Analysis Date:	06/01/2005
Matrix:	Water	QC Batch:	06015TPHGW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	13.7	50.	PQL		ND	UG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	BTEX/Gasoline Range Organics (SW8020/8015)
Project No:	05-0796	Method:	SW8020F
		Prep Meth:	SW5030B

Field ID:	21-MW-4-D	Lab Samp ID:	05-0796-08
Descr/Location:	MW-4	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1238	Analysis Date:	06/01/2005
Matrix:	Water	QC Batch:	06015TPHGW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	13.7	50.	PQL		ND	UG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	BTEX/Gasoline Range Organics (SW8020/8015)
Project No:	05-0796	Method:	SW8020F
		Prep Meth:	SW5030B

Field ID:	21-MW-4-P	Lab Samp ID:	05-0796-07
Descr/Location:	MW-4	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1235	Analysis Date:	06/01/2005
Matrix:	Water	QC Batch:	06015TPHGW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	13.7	50.	PQL		ND	UG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	BTEX/Gasoline Range Organics (SW8020/8015)
Project No:	05-0796	Method:	SW8020F
		Prep Meth:	SW5030B

Field ID:	21-MW-5-P	Lab Samp ID:	05-0796-05
Descr/Location:	MW-5	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1210	Analysis Date:	06/01/2005
Matrix:	Water	QC Batch:	06015TPHGW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	13.7	50.	PQL		ND	UG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	BTEX/Gasoline Range Organics (SW8020/8015)
Project No:	05-0796	Method:	SW8020F
		Prep Meth:	SW5030B

Field ID:	21-MW-6-P	Lab Samp ID:	05-0796-04
Descr/Location:	MW-6	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1135	Analysis Date:	06/01/2005
Matrix:	Water	QC Batch:	06015TPHGW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	13.7	50.	PQL		ND	UG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS	Analysis:	BTEX/Gasoline Range Organics (SW8020/8015)
Project No:	05-0796	Method:	SW8020F
		Prep Meth:	SW5030B

Field ID:	21-MW-4-E	Lab Samp ID:	05-0796-06
Descr/Location:	QCEB-4	Rec'd Date:	05/27/2005
Sample Date:	05/26/2005	Prep Date:	06/01/2005
Sample Time:	1205	Analysis Date:	06/01/2005
Matrix:	Water	QC Batch:	06015TPHGW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	13.7	50.	PQL		ND	UG/L	1

Approved by: _____ Date: _____

QA/QC Report
Method Blank Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0796 Date: 06/06/2005

QC Batch:	06015TPHDW	Analysis:	CA LUFT Method for Total Fuel
Matrix:	Water	Method:	CATFH
Lab Samp ID:	WBLK	Prep Meth:	SW3510
Analysis Date:	06/01/2005	Prep Date:	06/01/2005
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Diesel Fuel #2	0.031	0.05	PQL		ND	MG/L	1

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0796 Date: 06/06/2005

QC Batch: 06015TPHDW
Matrix: Water
Lab Samp ID: 0796-05 MS
Basis: Wet

Project Name: MORE FOR LESS
Project No.: 05-0796
Field ID: 21-MW-5-P
Lab Ref ID: 05-0796-05

Analyte	Analysis Method	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Units	% Recoveries MS	% Recoveries DMS	% Recoveries RPD	Acceptance Criteria % Rec	Acceptance Criteria RPD
Diesel Fuel #2	CATFH	2.50	2.50	ND	2.48	2.76	MG/L ww	99.2	110	10	115-64 MSA	25 MSP

QA/QC Report
Method Blank Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0796 Date: 06/06/2005

QC Batch:	06015TPHGW	Analysis:	BTEX/Gasoline Range Organics
Matrix:	Water	Method:	SW8020F
Lab Samp ID:	BLK	Prep Meth:	SW5030B
Analysis Date:	06/01/2005	Prep Date:	06/01/2005
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	13.7	50.	PQL		ND	UG/L	1

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0796 Date: 06/06/2005

QC Batch: 06015TPHGW
Matrix: Water
Lab Samp ID: 0796-05 MS
Basis: Wet

Project Name: MORE FOR LESS
Project No.: 05-0796
Field ID: 21-MW-5-P
Lab Ref ID: 05-0796-05

Analyte	Analysis Method	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Units		% Recoveries MS	% Recoveries DMS	% Recoveries RPD	Acceptance Criteria % Rec		Acceptance Criteria RPD
Gasoline Range Organics	SW8020F	1000.	1000.	ND	1030.	957.	UG/L	ww	103	95.7	7.3	130-70	MSA	30 MSP

QA/QC Report
Method Blank Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0796 Date: 06/06/2005 Page: 29

QC Batch:	06025OBXW5	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX
Matrix:	Water	Method:	8260FAB
Lab Samp ID:	BLK	Prep Meth:	SW5030B
Analysis Date:	06/02/2005	Prep Date:	05/20/2005
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.191	0.5	PQL		ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.214	1.	PQL		ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.209	1.	PQL		ND	UG/L	1
Di-isopropyl ether (DIPE)	0.197	0.5	PQL		ND	UG/L	1
tert-Butyl alcohol (TBA)	3.910	10.	PQL		ND	UG/L	1
1,2-Dichloroethane	0.250	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.123	1.	PQL		ND	UG/L	1
Ethanol (EtOH)	9.731	50.	PQL		ND	UG/L	1
Benzene	0.077	0.5	PQL		ND	UG/L	1
Toluene	0.199	0.5	PQL		ND	UG/L	1
Ethylbenzene	0.146	0.5	PQL		ND	UG/L	1
Chlorobenzene	0.178	1.	PQL		ND	UG/L	1
1,1-Dichloroethene	0.250	0.5	PQL		ND	UG/L	1
Trichloroethene (TCE)	0.293	0.5	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.146	1.	PQL		ND	UG/L	1
o-Xylene	0.256	0.5	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		85-115	SLSA		100%		1
Toluene-d8		85-115	SLSA		89%		1
Dibromofluoromethane		85-115	SLSA		92%		1
1,2-Dichloroethane-d4		85-115	SLSA		89%		1

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0796 Date: 06/06/2005

QC Batch: 06025OBXW5
Matrix: Water
Lab Samp ID: 0796-05 MS
Basis: Wet

Project Name: MORE FOR LESS
Project No.: 05-0796
Field ID: 21-MW-5-P
Lab Ref ID: 05-0796-05

Analyte	Analysis Method	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Units	% Recoveries MS	% Recoveries DMS	% Recoveries RPD	Acceptance Criteria % Rec		Acceptance Criteria RPD	
Benzene	8260FAB	20.0	20.0	ND	15.9	16.2	UG/L ww	79.5	81.0	1.9	130-70	MSA	30	MSP
Chlorobenzene	8260FAB	20.	20.	ND	19.	19.	UG/L ww	95.0	95.0	0.00	130-70	MSA	30	MSP
Toluene	8260FAB	20.0	20.0	ND	17.3	17.3	UG/L ww	86.5	86.5	0.00	130-70	MSA	30	MSP
Trichloroethene (TCE)	8260FAB	20.0	20.0	ND	18.6	18.5	UG/L ww	93.0	92.5	0.54	130-70	MSA	30	MSP
1,2-Dichloroethane-d4	8260FAB	100.	100.	110.	107.	113.	PERCENT ww	107	113	5.5	115-85	SLSA	30	SLSP
4-Bromofluorobenzene	8260FAB	100.	100.	92.	101.	102.	PERCENT ww	101	102	0.99	115-85	SLSA	30	SLSP
Dibromofluoromethane	8260FAB	100.	100.	109.	101.	113.	PERCENT ww	101	113	11	115-85	SLSA	30	SLSP
Toluene-d8	8260FAB	100.	100.	90.	92.	93.	PERCENT ww	92.0	93.0	1.1	115-85	SLSA	30	SLSP

QA/QC Report
Blank Spike/Duplicate Blank Spike Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0796 Date: 06/06/2005

QC Batch: 06025OBXW5
Matrix: Water
Lab Samp ID: LCS

Analyte	Analysis Method	Spike Level LCS	Spike Level LCD	Spike Result LCS	Spike Result LCD	Units	% Recoveries LCS	% Recoveries LCD	% Recoveries RPD	Acceptance Criteria %Rec	Acceptance Criteria RPD
1,1-Dichloroethene	8260FAB	20.0	20.0	16.	16.	UG/L ww	80.0	80.0	0.00	130-70 MSA	30 MSP

PDF! Correct only! 05-0796

Sheet 1 Of 1

ENVIRON

Counsel in Health and Environmental Science

CHAIN-of-CUSTODY FORM

5820 Shellmound St., Suite 700
Emeryville, California 94608
(510) 655-7400

PROJECT NAME: MORE FOR LESS

CASE NO.: 03-10605M

	ENVIRON SAMPLE ID.	COLLECTION DATE 2005	COLLECTED BY (initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: SAMPLE TIME	WSC for MS/MSD	TPH-gas / BTEX & Fuel Oxygenates by 8260B	TPH-diesel by 8015M			FIELD PT. ID:				COMMENTS
1	050526-21-MW-1-P	5/26	CJR	WATER	6	1025		X	X				MW-1				PLEASE FAX & EMAIL RESULTS TO CHRIS RITCHIE: 510.655.9517
2	050526-21-MW-2-P	5/26	CJR	WATER	6	1115		X	X				MW-2				critchie@environcorp.com
3	050526-21-MW-3-P	5/26	CJR	WATER	6	0955		X	X				MW-3				
4	050526-21-MW-6-P	5/26	CJR	WATER	6	1135		X	X				MW-6				GEOTRACKER GLOBAL ID: T0605500132
5	050526-21-MW-5-P	5/26	CJR	WATER	10	1210	X	X	X				MW-5				
6	050526-21-MW-4-E	5/26	CJR	WATER	6	1205		X	X				QCEB-4				*FUEL OXYGENATES TO INCLUDE MTBE, TBA, ETBE, TAME, DIPE, 1,2-DCA, EDB, ETHANOL
7	050526-21-MW-4-P	5/26	CJR	WATER	6	1235		X	X				MW-4				
8	050526-21-MW-4-D	5/26	CJR	WATER	6	1238		X	X				MW-4				
											CJR 5/26/05						
	TOTAL	X	X	X	52			8	8								

5-day TAT

Relinquished by:	Date:	Time:	Received by:	Company:	Date:	Time:
CHRIS RITCHIE CJR	5/26/05	1730	ROSS RUSSELL	ENVIRON	5/26/05	1730
Ross Russell	5/27/05	1027		NSCABS	5/27/05	1027
	5/27/05	1130		NSCABS	5/27/05	1130

APPENDIX C

Analytical Laboratory Report for Offsite Irrigation Well Located at 2412 Foothill Boulevard, Calistoga, CA

Laboratory Report Project Overview

EDF 1.2a

Laboratory:	North State Environmental, South San Francisco, CA
Lab Report Number:	05-0797
Project Name:	MORE FOR LESS #21
Work Order Number:	05-0797
Control Sheet Number:	T0605500132

Case Narrative

North State Environmental, South San Francisco, CA

Report Date: 06/06/2005	Project: MORE FOR LESS #21
Report Number: 05-0797	Order #: 05-0797

One water sample was received under chain of custody control and analyzed for diesel and gasoline range organics by method 8015B and fuel oxygenates with BTEX by GC/MS method 8260B. No errors were noted during analysis. All QA/QC sample results met acceptance criteria.

Approved by: _____ Date: 6/6/05

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
05-0797	21-WSW-1-P	05-0797-01	W	CS	8260FAB	SW5030B	05/23/2005	06/06/2005	06/06/2005	06065OBXW1	1	
05-0797	21-WSW-1-P	05-0797-01	W	CS	CATFH	SW3510	05/23/2005	06/01/2005	06/02/2005	06015TPHDW	1	
05-0797	21-WSW-1-P	05-0797-01	W	CS	SW8020F	SW5030B	05/23/2005	06/01/2005	06/01/2005	06015TPHGW	1	
		05-0797-01	W	NC	8260FAB	SW5030B	/ /	06/06/2005	06/06/2005	06065OBXW1	1	
		BLK	W	LB1	8260FAB	SW5030B	/ /	05/20/2005	06/06/2005	06065OBXW1	1	
		BLK	W	LB1	SW8020F	SW5030B	/ /	06/01/2005	06/01/2005	06015TPHGW	1	
		WBLK	W	LB1	CATFH	SW3510	/ /	06/01/2005	06/01/2005	06015TPHDW	1	
		0797-01 MS	W	MS1	CATFH	SW3510	/ /	06/01/2005	06/02/2005	06015TPHDW	1	
		0797-01 MS	W	MS1	SW8020F	SW5030B	/ /	06/01/2005	06/01/2005	06015TPHGW	1	
		0797-01MS	W	MS1	8260FAB	SW5030B	/ /	06/06/2005	06/06/2005	06065OBXW1	1	
		0797-01 MSD	W	SD1	CATFH	SW3510	/ /	06/01/2005	06/02/2005	06015TPHDW	1	
		0797-01 MSD	W	SD1	SW8020F	SW5030B	/ /	06/01/2005	06/01/2005	06015TPHGW	1	
		0797-01MSD	W	SD1	8260FAB	SW5030B	/ /	06/06/2005	06/06/2005	06065OBXW1	1	

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0797 Date: 06/06/2005

Project Name:	MORE FOR LESS #21	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX
Project No:	05-0797	Method:	8260FAB
		Prep Meth:	SW5030B

Field ID:	21-WSW-1-P	Lab Samp ID:	05-0797-01
Descr/Location:	WSW-1	Rec'd Date:	05/27/2005
Sample Date:	05/23/2005	Prep Date:	06/06/2005
Sample Time:	1158	Analysis Date:	06/06/2005
Matrix:	Water	QC Batch:	06065OBXW1
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.191	0.5	PQL		ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.214	1.	PQL		ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.209	1.	PQL		ND	UG/L	1
Di-isopropyl ether (DIPE)	0.197	0.5	PQL		ND	UG/L	1
tert-Butyl alcohol (TBA)	3.910	10.	PQL		ND	UG/L	1
1,2-Dichloroethane	0.250	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.123	1.	PQL		ND	UG/L	1
Ethanol (EtOH)	9.731	50.	PQL		ND	UG/L	1
Benzene	0.077	0.5	PQL		ND	UG/L	1
Toluene	0.199	0.5	PQL		ND	UG/L	1
Ethylbenzene	0.146	0.5	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.146	1.	PQL		ND	UG/L	1
o-Xylene	0.256	0.5	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		85-115	SLSA		96%		1
Toluene-d8		85-115	SLSA		89%		1
Dibromofluoromethane		85-115	SLSA		97%		1
1,2-Dichloroethane-d4		85-115	SLSA		98%		1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS #21	Analysis:	CA LUFT Method for Total Fuel Hydrocarbons
Project No:	05-0797	Method:	CATFH
		Prep Meth:	SW3510

Field ID:	21-WSW-1-P	Lab Samp ID:	05-0797-01
Descr/Location:	WSW-1	Rec'd Date:	05/27/2005
Sample Date:	05/23/2005	Prep Date:	06/01/2005
Sample Time:	1158	Analysis Date:	06/02/2005
Matrix:	Water	QC Batch:	06015TPHDW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Diesel Fuel #2	0.031	0.05	PQL		ND	MG/L	1

Approved by: _____ Date: _____

Project Name:	MORE FOR LESS #21	Analysis:	BTEX/Gasoline Range Organics (SW8020/8015)
Project No:	05-0797	Method:	SW8020F
		Prep Meth:	SW5030B

Field ID:	21-WSW-1-P	Lab Samp ID:	05-0797-01
Descr/Location:	WSW-1	Rec'd Date:	05/27/2005
Sample Date:	05/23/2005	Prep Date:	06/01/2005
Sample Time:	1158	Analysis Date:	06/01/2005
Matrix:	Water	QC Batch:	06015TPHGW
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	13.7	50.	PQL		ND	UG/L	1

Approved by: _____ Date: _____

QA/QC Report
Method Blank Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0797 Date: 06/06/2005

QC Batch:	06015TPHDW	Analysis:	CA LUFT Method for Total Fuel
Matrix:	Water	Method:	CATFH
Lab Samp ID:	WBLK	Prep Meth:	SW3510
Analysis Date:	06/01/2005	Prep Date:	06/01/2005
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Diesel Fuel #2	0.031	0.05	PQL		ND	MG/L	1

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0797 Date: 06/06/2005

QC Batch: 06015TPHDW
Matrix: Water
Lab Samp ID: 0797-01 MS
Basis: Wet

Project Name: MORE FOR LESS #21
Project No.: 05-0797
Field ID: 21-WSW-1-P
Lab Ref ID: 05-0797-01

Analyte	Analysis Method	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Units	% Recoveries MS	% Recoveries DMS	% Recoveries RPD	Acceptance Criteria % Rec	Acceptance Criteria RPD
Diesel Fuel #2	CATFH	2.50	2.50	ND	2.64	2.82	MG/L ww	106	113	6.4	115-64 MSA	25 MSP

QA/QC Report
Method Blank Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0797 Date: 06/06/2005

QC Batch:	06015TPHGW	Analysis:	BTEX/Gasoline Range Organics
Matrix:	Water	Method:	SW8020F
Lab Samp ID:	BLK	Prep Meth:	SW5030B
Analysis Date:	06/01/2005	Prep Date:	06/01/2005
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Gasoline Range Organics	13.7	50.	PQL		ND	UG/L	1

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0797 Date: 06/06/2005

QC Batch: 06015TPHGW
Matrix: Water
Lab Samp ID: 0797-01 MS
Basis: Wet

Project Name: MORE FOR LESS #21
Project No.: 05-0797
Field ID: 21-WSW-1-P
Lab Ref ID: 05-0797-01

Analyte	Analysis Method	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Units	% Recoveries MS	% Recoveries DMS	% Recoveries RPD	Acceptance Criteria % Rec	Acceptance Criteria RPD
Gasoline Range Organics	SW8020F	1000.	1000.	ND	1020.	1080.	UG/L ww	102	108	5.7	130-70 MSA	30 MSP

QA/QC Report
Method Blank Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0797 Date: 06/06/2005 Page: 8

QC Batch:	06065OBXW1	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX
Matrix:	Water	Method:	8260FAB
Lab Samp ID:	BLK	Prep Meth:	SW5030B
Analysis Date:	06/06/2005	Prep Date:	05/20/2005
Basis:	Wet	Notes:	

Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.191	0.5	PQL		ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.214	1.	PQL		ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.209	1.	PQL		ND	UG/L	1
Di-isopropyl ether (DIPE)	0.197	0.5	PQL		ND	UG/L	1
tert-Butyl alcohol (TBA)	3.910	10.	PQL		ND	UG/L	1
1,2-Dichloroethane	0.250	1.	PQL		ND	UG/L	1
1,2-Dibromoethane	0.123	1.	PQL		ND	UG/L	1
Ethanol (EtOH)	9.731	50.	PQL		ND	UG/L	1
Benzene	0.077	0.5	PQL		ND	UG/L	1
Toluene	0.199	0.5	PQL		ND	UG/L	1
Ethylbenzene	0.146	0.5	PQL		ND	UG/L	1
Chlorobenzene	0.178	1.	PQL		ND	UG/L	1
1,1-Dichloroethene	0.250	0.5	PQL		ND	UG/L	1
Trichloroethene (TCE)	0.293	0.5	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.146	1.	PQL		ND	UG/L	1
o-Xylene	0.256	0.5	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		85-115	SLSA		95%		1
Toluene-d8		85-115	SLSA		87%		1
Dibromofluoromethane		85-115	SLSA		98%		1
1,2-Dichloroethane-d4		85-115	SLSA		92%		1

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

North State Environmental, South San Francisco, CA

Lab Report No.: 05-0797 Date: 06/06/2005

QC Batch: 06065OBXW1
Matrix: Water
Lab Samp ID: 0797-01MS
Basis: Wet

Project Name: Lab Generated or Non COE Sample
Project No.: Lab Generated or Non COE Sample
Field ID: Lab Generated or Non COE Sample
Lab Ref ID: 05-0797-01

Analyte	Analysis Method	Spike Level MS	Spike Level DMS	Sample Result	Spike Result MS	Spike Result DMS	Units	% Recoveries MS	% Recoveries DMS	% Recoveries RPD	Acceptance Criteria % Rec		Acceptance Criteria RPD	
1,1-Dichloroethene	8260FAB	20.0	20.0	ND	23.2	23.1	UG/L ww	116	116	0.00	130-70	MSA	30	MSP
Benzene	8260FAB	20.0	20.0	ND	17.8	18.2	UG/L ww	89.0	91.0	2.2	130-70	MSA	30	MSP
Chlorobenzene	8260FAB	20.	20.	ND	20.	20.	UG/L ww	100	100	0.00	130-70	MSA	30	MSP
Toluene	8260FAB	20.0	20.0	ND	17.5	18.1	UG/L ww	87.5	90.5	3.4	130-70	MSA	30	MSP
Trichloroethene (TCE)	8260FAB	20.0	20.0	ND	19.5	19.9	UG/L ww	97.5	99.5	2.0	130-70	MSA	30	MSP
1,2-Dichloroethane-d4	8260FAB	100.	100.	98.	101.	101.	PERCENT ww	101	101	0.00	115-85	SLSA	30	SLSP
4-Bromofluorobenzene	8260FAB	100.	100.	96.	96.	98.	PERCENT ww	96.0	98.0	2.1	115-85	SLSA	30	SLSP
Dibromofluoromethane	8260FAB	100.	100.	97.	96.	96.	PERCENT ww	96.0	96.0	0.00	115-85	SLSA	30	SLSP
Toluene-d8	8260FAB	100.	100.	89.	89.	89.	PERCENT ww	89.0	89.0	0.00	115-85	SLSA	30	SLSP

PDF 1 Coect Orig 05-0797

Sheet 1 Of 1

ENVIRON

Counsel in Health and Environmental Science

CHAIN-of-CUSTODY FORM

5820 Shellmound St., Suite 700
Emeryville, California 94608
(510) 655-7400

PROJECT NAME: More for Less #21

CASE NO.: 03-10605M

ENVIRON SAMPLE ID.	COLLECTION DATE 2005	COLLECTED BY (initials)	MATRIX	TOTAL NO. OF CONTAINERS	ANALYSES: SAMPLE TIME	MS/MSD	TPH-gas, BTEX, Fuel Oxygenates by 8260B	TPH-diesel by 8015M	FIELD PT. ID:
050526-21-WSW-1-P	5/26	CJR	WATER	10	1158	X	X	X	WSW-1
TOTAL				10			1	1	

5-day TAT

COMMENTS

PLEASE FX & EMAIL RESULTS TO CHRIS RITCHIE: 510.655.9517 critchie@environcorp.com

GEOTRACKER GLOBAL ID: T0605500132

CJR 5/26/05

*FUEL OXYGENATES TO INCLUDE MTBE; TBA; ETBE; TAME; DIPE; 1,2-DCA; EDB; ETHANOL

Relinquished by:	Date:	Time:	Received by:	Company:	Date:	Time:
CHRIS RITCHIE CJR	5/26/05	1730	Ross Russell	ENVIRON	5/26/05	1730
Ross Russell	5/27/05	10:27		NS LABS	5/27/05	1027
	5/27/05	1130		NSCKBS	5/27/05	1130